

Geology
GJBX-(78)-108

GJBX 108-(78)

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

COOK INLET ALASKA AREA

TYONEK	KENAI	SELDOVIA
ANCHORAGE	<u>SEWARD</u>	BLYING SOUND
QUADRANGLES		

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BEFORE THE RELEASE TIME

VOLUME II

LKB RESOURCES, INC.
55 BUCK ROAD
HUNTINGDON VALLEY, PENNSYLVANIA 19006

JULY, 1978

WORK PERFORMED UNDER
BENDIX FIELD ENGINEERING CORPORATION GRAND JUNCTION OPERATIONS
SUBCONTRACT NO. 76-015-S AND BENDIX CONTRACT EY-76-C-13-1664

PREPARED FOR THE
DEPARTMENT OF ENERGY
GRAND JUNCTION OFFICE
GRAND JUNCTION, COLORADO 81501

1960-10-13

metadc958280

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SEWARD

LEGEND

STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS
MAINLY MARINE, IN PART METAMORPHOSSED

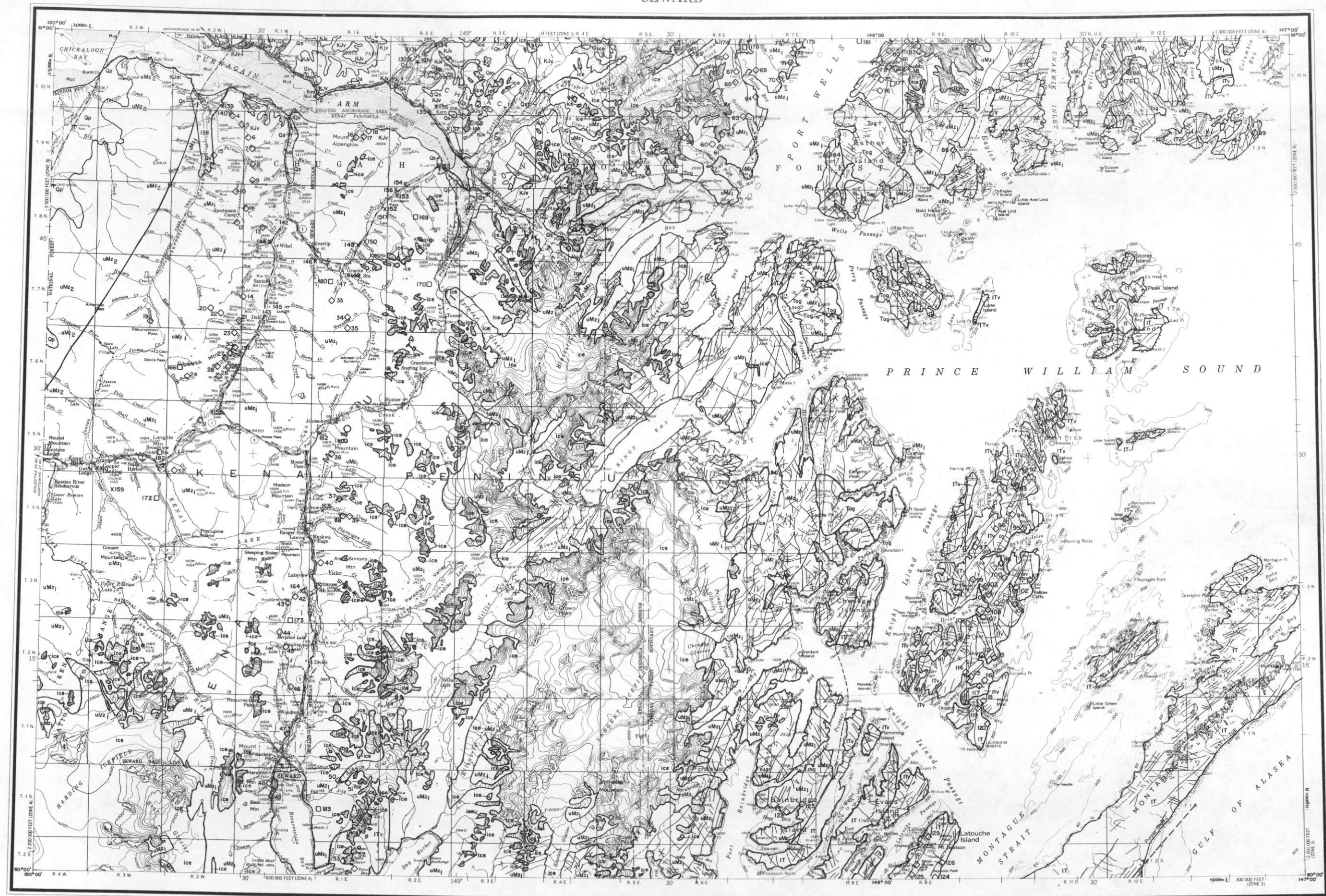
- QUATERNARY**
- Qp PLEISTOCENE DEPOSITS
 - Qs QUATERNARY SURFICIAL DEPOSITS—UNDIFFERENTIATED (GENERALLY EQUIVALENT TO Qp) (MAPPED IN NW SEWARD ONLY)
- TERTIARY**
- IT LOWER TERTIARY ROCKS
 - ITv LOWER TERTIARY VOLCANIC ROCKS
- JURASSIC-CRETACEOUS**
- uMz1 CRETACEOUS AND UPPER JURASSIC (?) ROCKS
 - KJv VALDEZ (?) GROUP (GENERALLY EQUIVALENT TO uMz1) (MAPPED IN NW SEWARD ONLY)
 - uMz2 CRETACEOUS AND (OR) UPPER JURASSIC ROCKS
 - KJm Mc HUGH COMPLEX (GENERALLY EQUIVALENT TO uMz2) (MAPPED IN NW SEWARD ONLY)

PLUTONIC AND HYPABYSSAL ROCKS—FELSIC COMPOSITION

- TERTIARY**
- Tg TERTIARY GRANITIC ROCKS
 - Tog OLIGOCENE GRANITIC ROCKS

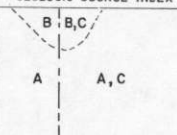
- CONTACT, DASHED WHERE INFERRED OR CONCEALED.
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- 39, X 48, □ 171, 145—METALLIC MINERAL OCCURRENCE IDENTIFIED IN REPORT.

SOURCE PUBLICATION MF-466, MAP SERIES MR 32-69
ICE—ICE WATER—



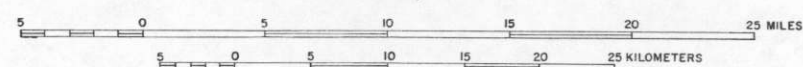
BASE MAP SOURCE: PUBLISHED U.S.G.S. MAPS

GEOLOGIC SOURCE INDEX

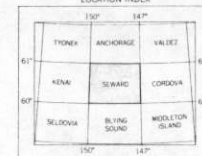


USGS PUB. A (MF-612) 1:1,000,000
B (MF-350) 1:250,000
C (I-273) 1:125,000

SCALE 1:500,000



LOCATION INDEX

NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEYSEWARD, ALASKA
GEOLOGIC BASE MAP
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR
DEPARTMENT OF ENERGY

SEWARD

LEGEND

STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS
MAINLY MARINE, IN PART METAMORPHOSED

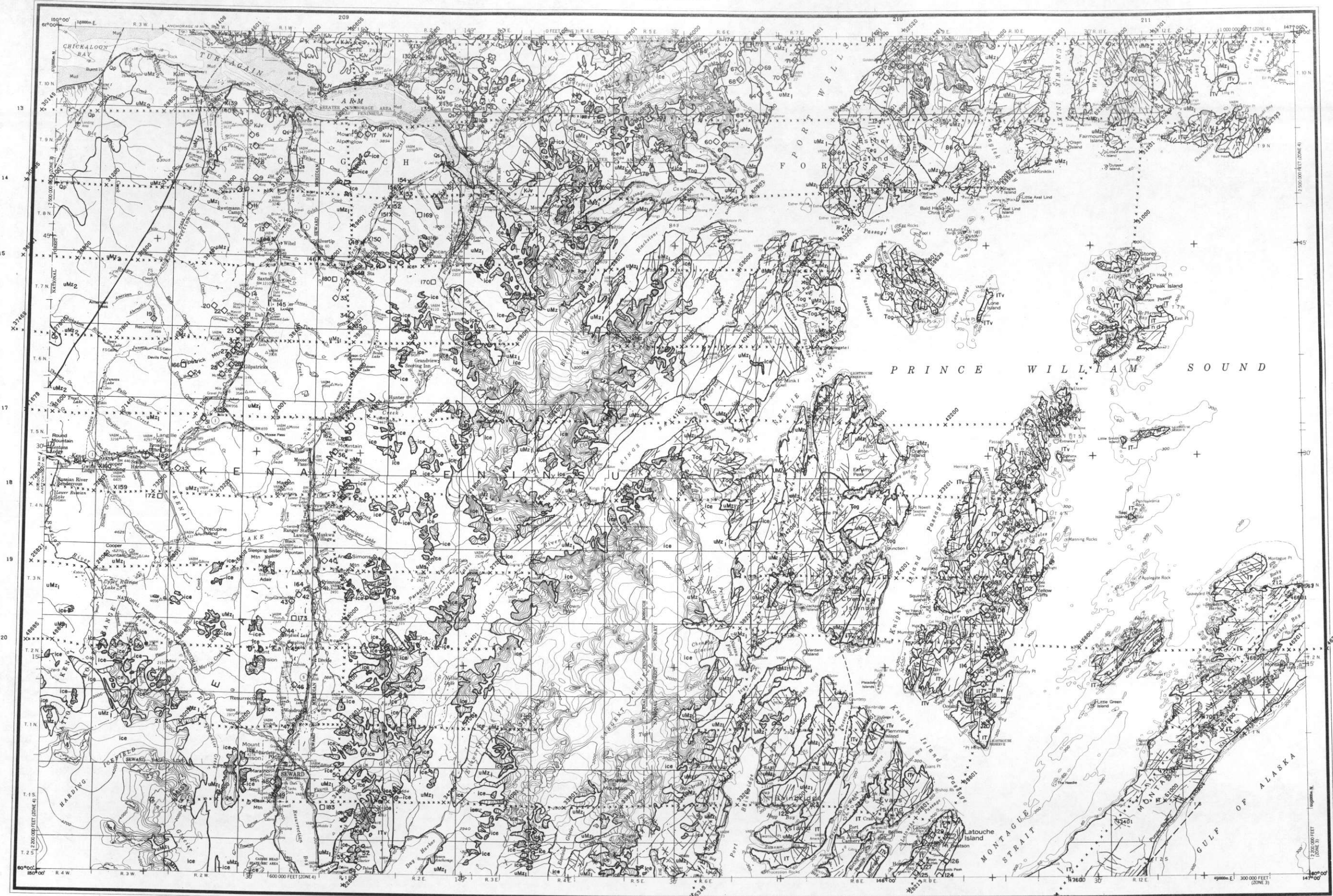
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PLUTONIC AND HYPABYSSAL ROCKS - FELSIC COMPOSITION

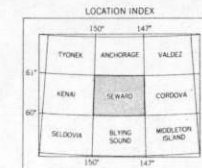
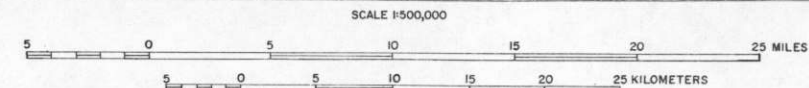
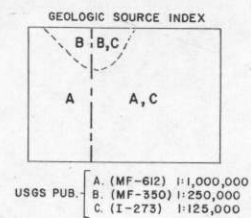
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- Tg TERTIARY GRANITIC ROCKS
 - Tog OLIGOCENE GRANITIC ROCKS

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- 39, X 48, □ 171, 145 - METALLIC MINERAL OCCURRENCE IDENTIFIED IN REPORT.

SOURCE PUBLICATION MF-466, MAP SERIES MR 32-69
ICE - [ice] WATER - [water]



BASE MAP SOURCE: PUBLISHED U.S.G.S. MAPS

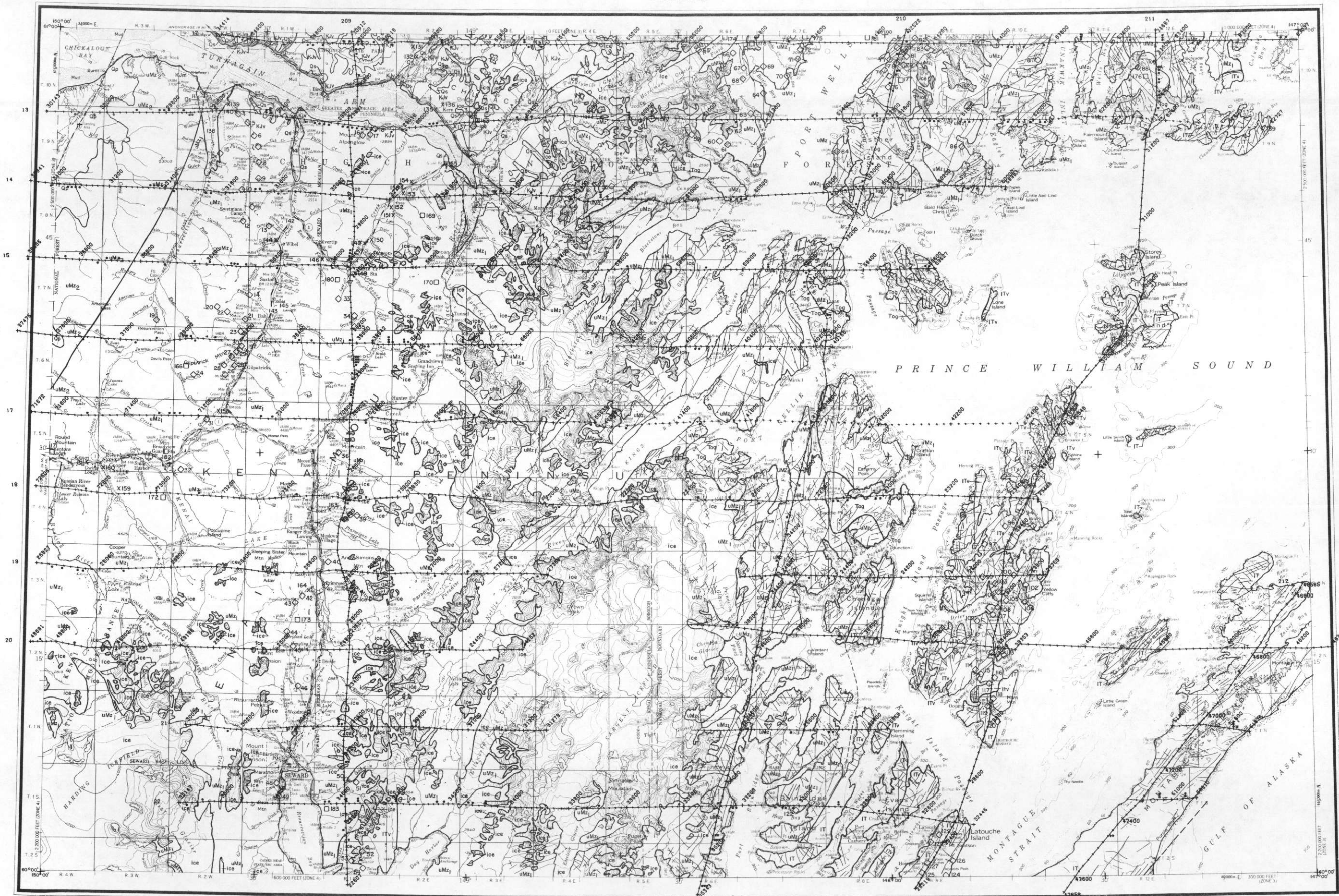
NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEY

SEWARD, ALASKA
FLIGHT PATH MAP
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR
DEPARTMENT OF ENERGY

SEWARD



LEGEND

STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS
MAINLY MARINE, IN PART METAMORPHOSED

QUATERNARY	Qp	PLEISTOCENE DEPOSITS
	Qs	QUATERNARY SURFICIAL DEPOSITS-UNDIFFERENTIATED (GENERALLY EQUIVALENT TO Qp) (MAPPED IN NW SEWARD ONLY)

ERTIARY

IT	LOWER TERTIARY ROCKS
ITv	LOWER TERTIARY VOLCANIC ROCKS

JURASSIC-CRETACEOUS	uMz ₁	CRETACEOUS AND UPPER JURASSIC (?) ROCKS
	Kdv	VALDEZ (?) GROUP (GENERALLY EQUIVALENT TO uMz ₁ (MAPPED IN NW SEWARD ONLY)
	uMz ₂	CRETACEOUS AND (OR) UPPER JURASSIC ROCKS
	Kdm	Mc HUGH COMPLEX (GENERALLY EQUIVALENT TO uMz ₂) (MAPPED IN NW SEWARD ONLY)

PLUTONIC AND HYPABYSSAL ROCKS - FELSIC COMPOSITION

TERTIARY	Tg	TERTIARY GRANITIC ROCKS
	Tog	OLIGOCENE GRANITIC ROCKS

_____ CONTACT, DASHED WHERE INFERRED
 OR CONCEALED.
 _____ FAULT, DASHED WHERE INFERRED
 OR CONCEALED.
 _____ LINEAR GEOLOGIC FEATURES INTERPRETED
 FROM AIR PHOTOS - PROBABLE OR
 POSSIBLE FAULTS, SHEAR ZONES AND JOINTS.

◇ 39, X48, □ 171, 145 - METALLIC MINERAL OCCURRENCE
 IDENTIFIED IN REPORT.

SOURCE PUBLICATION MF-466 , MAP SERIES MR 32-69
ICE-ice WATER-

BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

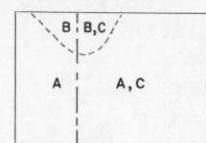
EXPLANATION

INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES.

AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION INTERVALS ANNOTATED ARE 1 TO 2, 2 TO 3, AND 3 OR GREATER.

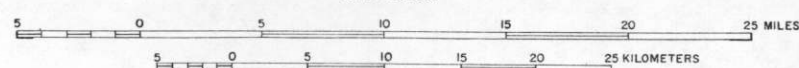
TRAVERSE LINE DEVIATIONS ARE INDICATED BY SOLID CIRCLES AND TIE LINES BY SQUARES. NORTH OR EAST ARE POSITIVE AND SOUTH OR WEST ARE NEGATIVE.

GEOLOGIC SOURCE INDEX

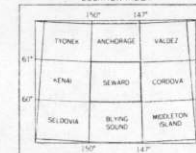


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B. (MF-350) 1:250,000
C. (I-273) 1:125,000

SCALE 1:500,000



LOCATION INDEX

NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEYSEWARD, ALASKA
ANOMALY MAP - URANIUM

1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR
DEPARTMENT OF ENERGY

SEWARD

LEGEND

STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS
MAINLY MARINE, IN PART METAMORPHOSED

- QUATERNARY**
- Qp **PLEISTOCENE DEPOSITS**
 - Qs **QUATERNARY SURFICIAL DEPOSITS-UNDIFFERENTIATED**
(GENERALLY EQUIVALENT TO Qp)
(MAPPED IN NW SEWARD ONLY)
- TERTIARY**
- IT **LOWER TERTIARY ROCKS**
 - ITv **LOWER TERTIARY VOLCANIC ROCKS**
- JURASSIC-CRETACEOUS**
- uMz1 **CRETACEOUS AND UPPER JURASSIC (?) ROCKS**
 - KJv **VALDEZ (?) GROUP (GENERALLY EQUIVALENT TO uMz1)**
(MAPPED IN NW SEWARD ONLY)
 - uMz2 **CRETACEOUS AND (OR) UPPER JURASSIC ROCKS**
 - KJm **Mc HUGH COMPLEX (GENERALLY EQUIVALENT TO uMz2)**
(MAPPED IN NW SEWARD ONLY)

PLUTONIC AND HYPABYSSAL ROCKS - FELSIC COMPOSITION

- TERTIARY**
- Tg **TERTIARY GRANITIC ROCKS**
 - Tog **OLIGOCENE GRANITIC ROCKS**

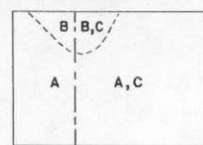
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SOURCE PUBLICATION MF-466, MAP SERIES MR 32-69
ICE - [ice symbol] WATER - [water symbol]



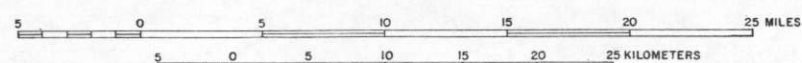
BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

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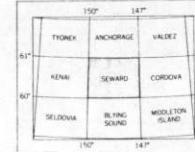


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SCALE 1:500,000



LOCATION INDEX



EXPLANATION

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AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION INTERVALS ANNOTATED ARE 1 TO 2, 2 TO 3, AND 3 OR GREATER.

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NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEYSEWARD, ALASKA
ANOMALY MAP - THORIUM
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR
DEPARTMENT OF ENERGY

SEWARD

LEGEND

STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS
MAINLY MARINE, IN PART METAMORPHOSED

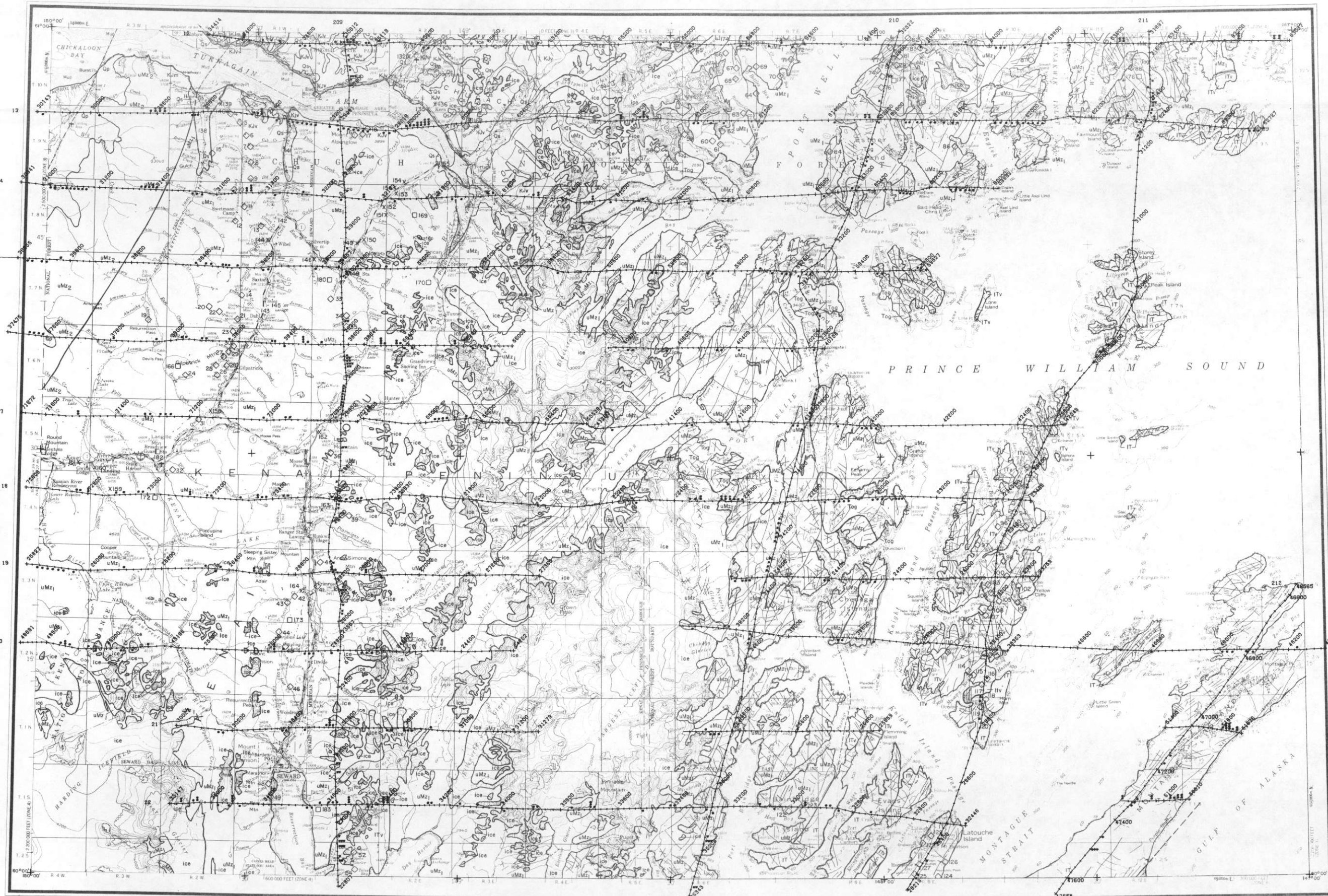
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PLUTONIC AND HYPABYSSAL ROCKS - FELSIC COMPOSITION

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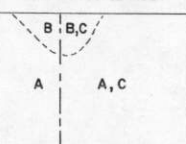
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SOURCE PUBLICATION MF-466, MAP SERIES MR 32-69
ICE - ice WATER - water



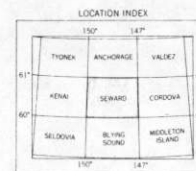
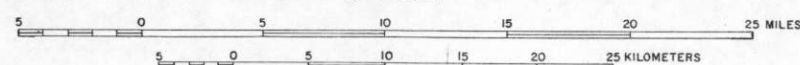
BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

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SCALE 1:500,000

NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEYSEWARD, ALASKA
ANOMALY MAP - POTASSIUM
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR
DEPARTMENT OF ENERGY

EXPLANATION

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SEWARD

LEGEND

STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS
MAINLY MARINE, IN PART METAMORPHOSED

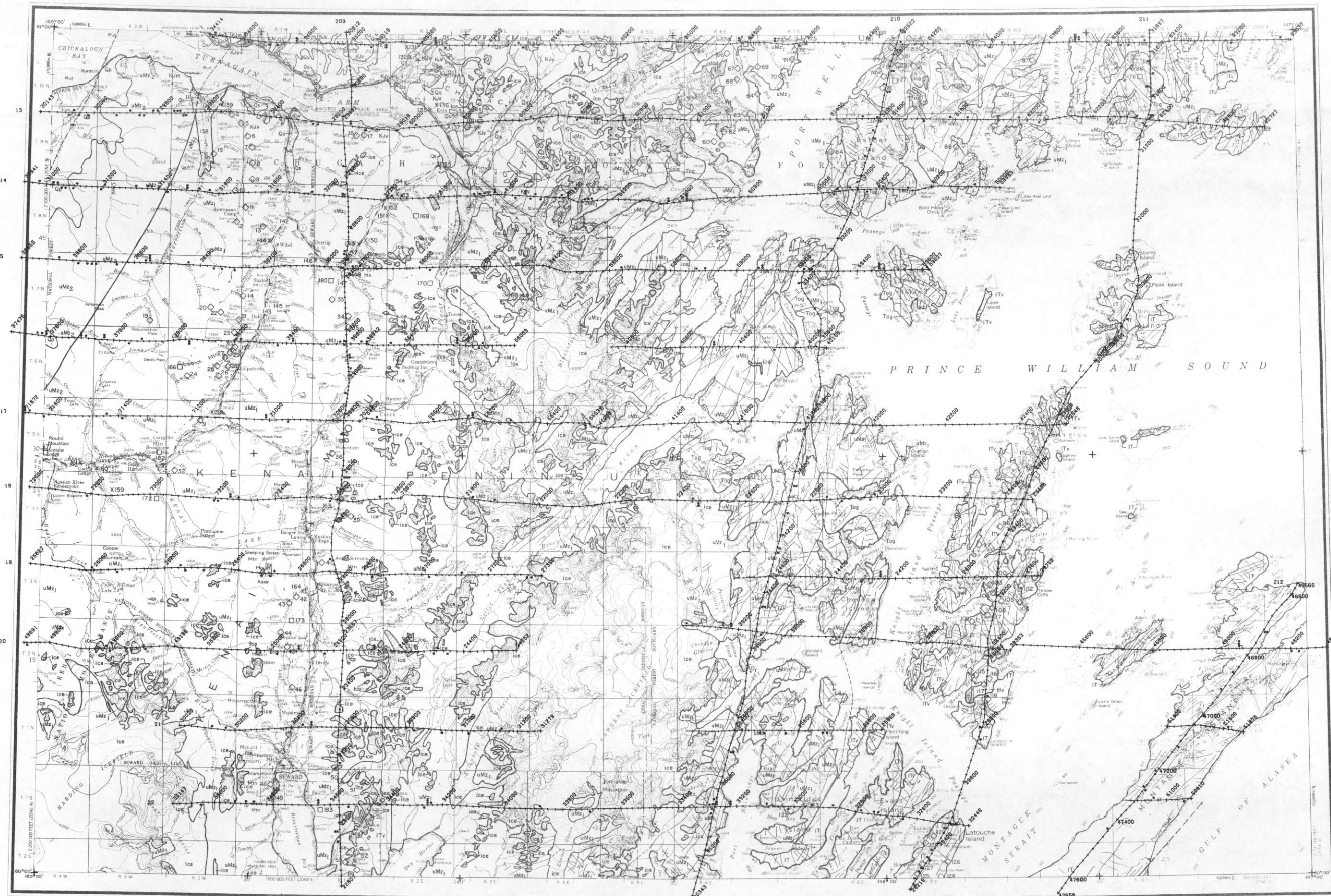
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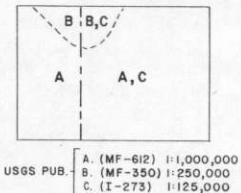
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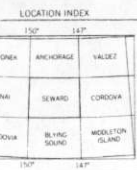
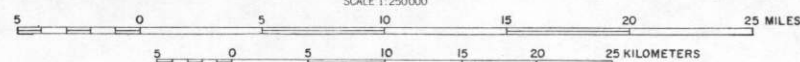


BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

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SCALE 1:500,000
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EXPLANATION

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NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEYSEWARD, ALASKA
ANOMALY MAP-URANIUM / THORIUM
1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR
DEPARTMENT OF ENERGY

SEWARD

LEGEND

STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS
MAINLY MARINE, IN PART METAMORPHOSED

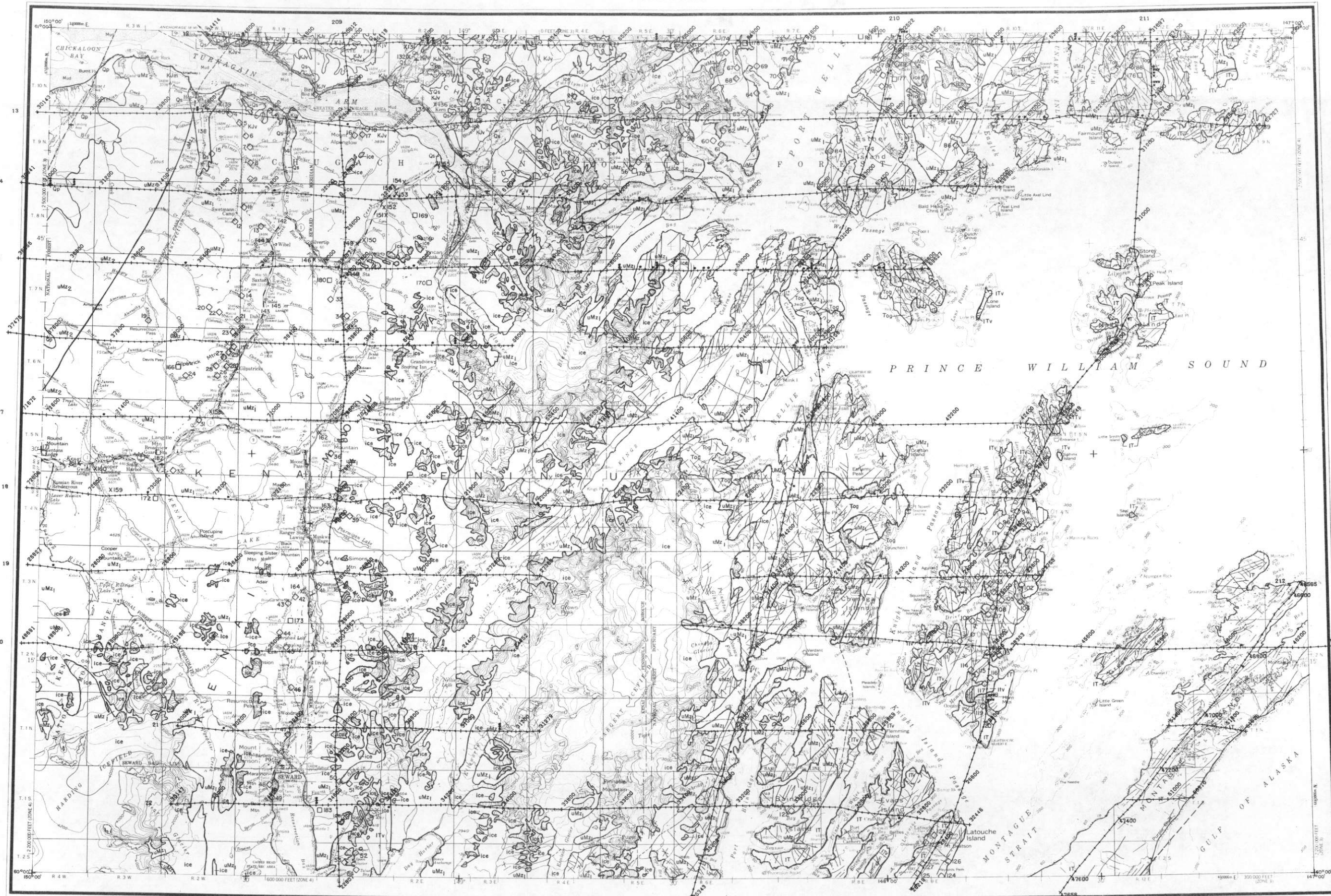
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PLUTONIC AND HYPABYSSAL ROCKS—FELSIC COMPOSITION

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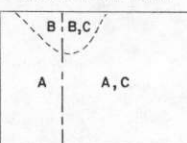
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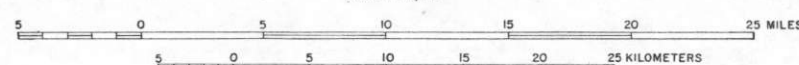
BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

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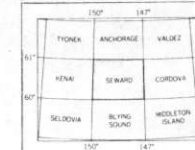


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RECONNAISSANCE SURVEYSEWARD, ALASKA
ANOMALY MAP—URANIUM/POTASSIUM
1976-1978

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EXPLANATION

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SEWARD

LEGEND

STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS
MAINLY MARINE, IN PART METAMORPHOSED

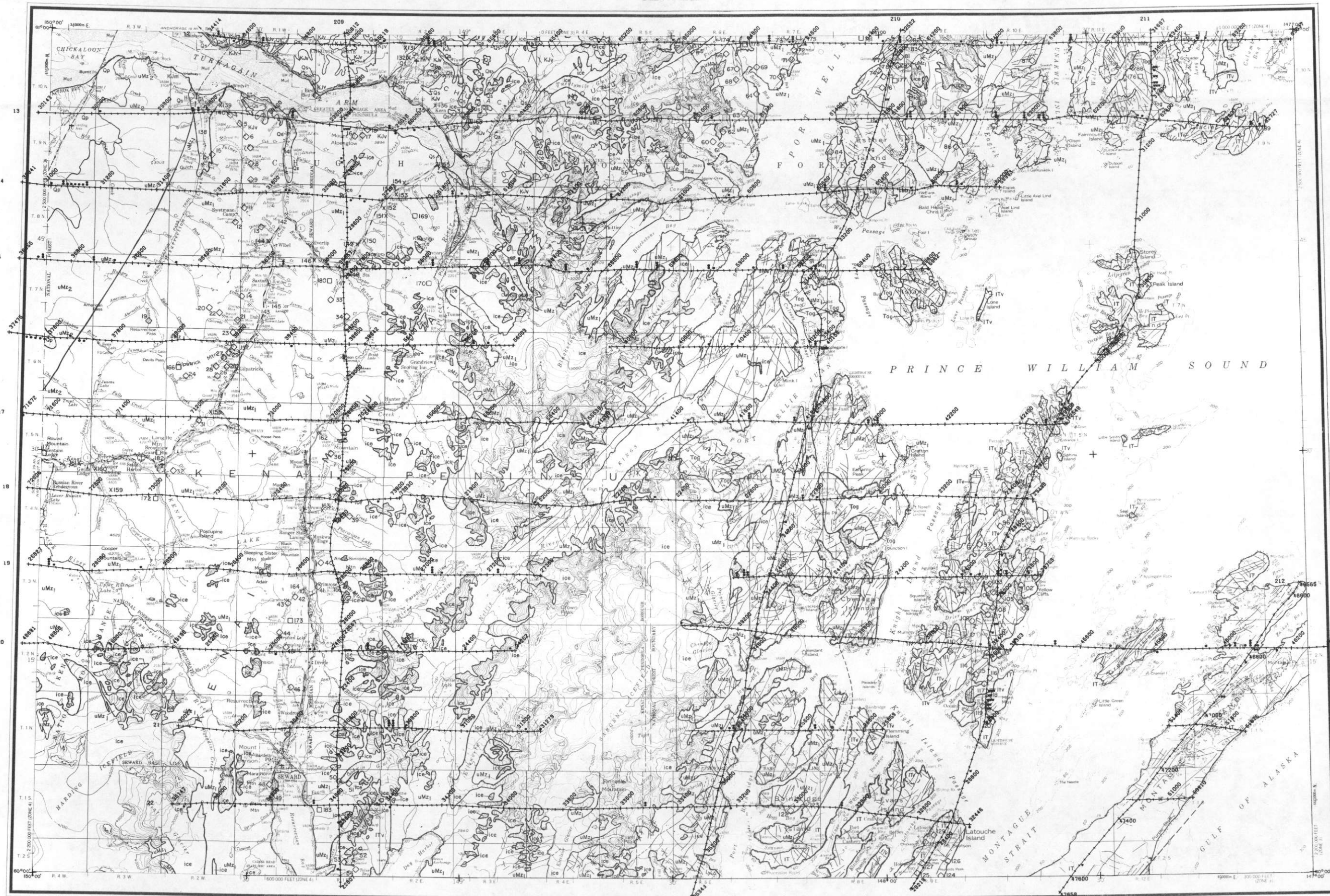
- QUATERNARY**
- Qp PLEISTOCENE DEPOSITS
 - Qs QUATERNARY SURFICIAL DEPOSITS-UNDIFFERENTIATED (GENERALLY EQUIVALENT TO Qp) (MAPPED IN NW SEWARD ONLY)
- TERTIARY**
- IT LOWER TERTIARY ROCKS
 - ITv LOWER TERTIARY VOLCANIC ROCKS
- JURASSIC-CRETACEOUS**
- uMz₁ CRETACEOUS AND UPPER JURASSIC (?) ROCKS
 - KJv VALDEZ (?) GROUP (GENERALLY EQUIVALENT TO uMz₁) (MAPPED IN NW SEWARD ONLY)
 - uMz₂ CRETACEOUS AND (OR) UPPER JURASSIC ROCKS
 - KJm M₆ HUGH COMPLEX (GENERALLY EQUIVALENT TO uMz₂) (MAPPED IN NW SEWARD ONLY)

PLUTONIC AND HYPABYSSAL ROCKS - FELSIC COMPOSITION

- TERTIARY**
- Tg TERTIARY GRANITIC ROCKS
 - Tog OLIGOCENE GRANITIC ROCKS

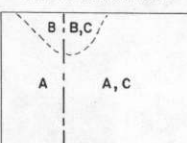
- CONTACT, DASHED WHERE INFERRED OR CONCEALED.
- FAULT, DASHED WHERE INFERRED OR CONCEALED.
- LINEAR GEOLOGIC FEATURES INTERPRETED FROM AIR PHOTOS - PROBABLE OR POSSIBLE FAULTS, SHEAR ZONES AND JOINTS.
- ◇ 39, X 48, □ 171, 145-METALLIC MINERAL OCCURRENCE IDENTIFIED IN REPORT.

SOURCE PUBLICATION MF-466, MAP SERIES MR 32-69
ICE - ice WATER - water



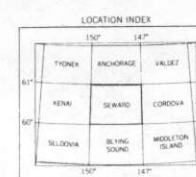
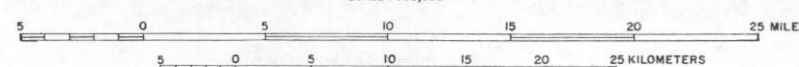
BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

GEOLOGIC SOURCE INDEX



USGS PUB. A (MF-612) 1:1,000,000
B (MF-350) 1:250,000
C (T-273) 1:125,000

SCALE 1:500,000



EXPLANATION

INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES. AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION INTERVALS ANNOTATED ARE 1 TO 2, 2 TO 3, AND 3 OR GREATER. TRAVERSE LINE DEVIATIONS ARE INDICATED BY SOLID CIRCLES AND THE LINES BY SQUARES. NORTH OR EAST ARE POSITIVE AND SOUTH OR WEST ARE NEGATIVE.

NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEYSEWARD, ALASKA
ANOMALY MAP - THORIUM/POTASSIUM
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR
DEPARTMENT OF ENERGY

TL/K
0.20/DIV

BI/TL
0.20/DIV

BI/K
0.20/DIV

K
20 C/S/DIV

TL
5 C/S/DIV

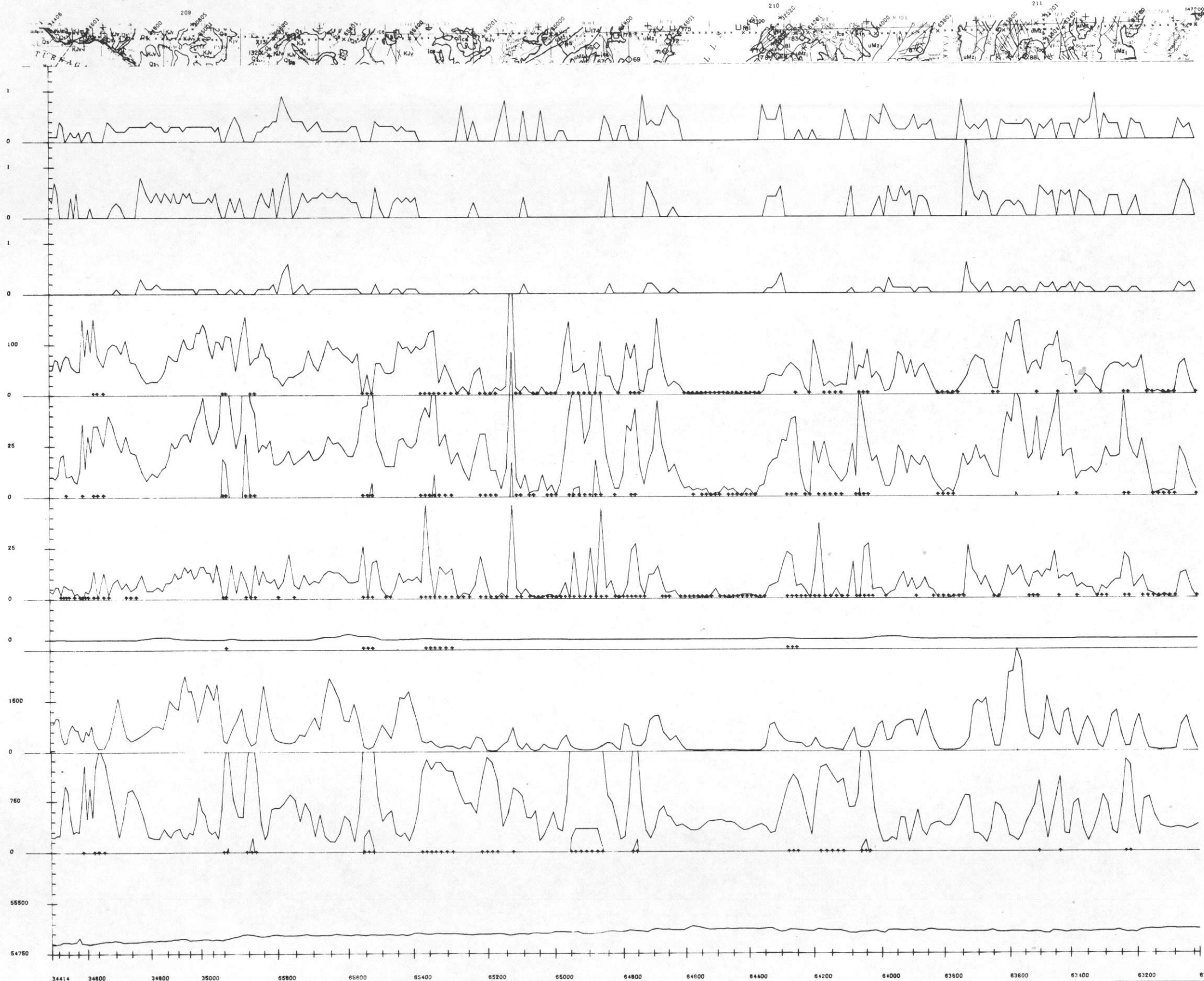
BI
5 C/S/DIV

BI COR
5.00/DIV

TC
300 C/S/DIV

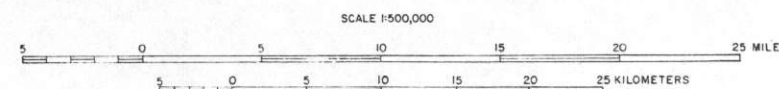
ALT
150 FT/DIV

MAG
150 GAMMAS/DIV

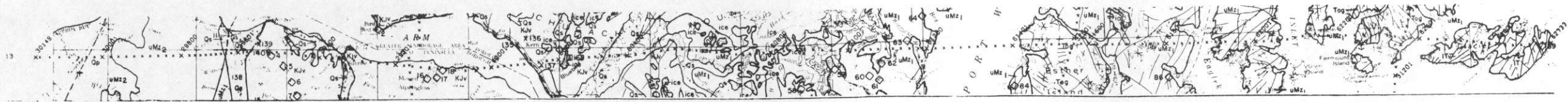


P 12

↑ FLAGGED SAMPLE VALUES OF
K, TL, BI INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES 1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



TL/K
0.20/div

BI/TL
0.20/div

BI/K
0.20/div

K
20 C/S/div

TL
5 C/S/div

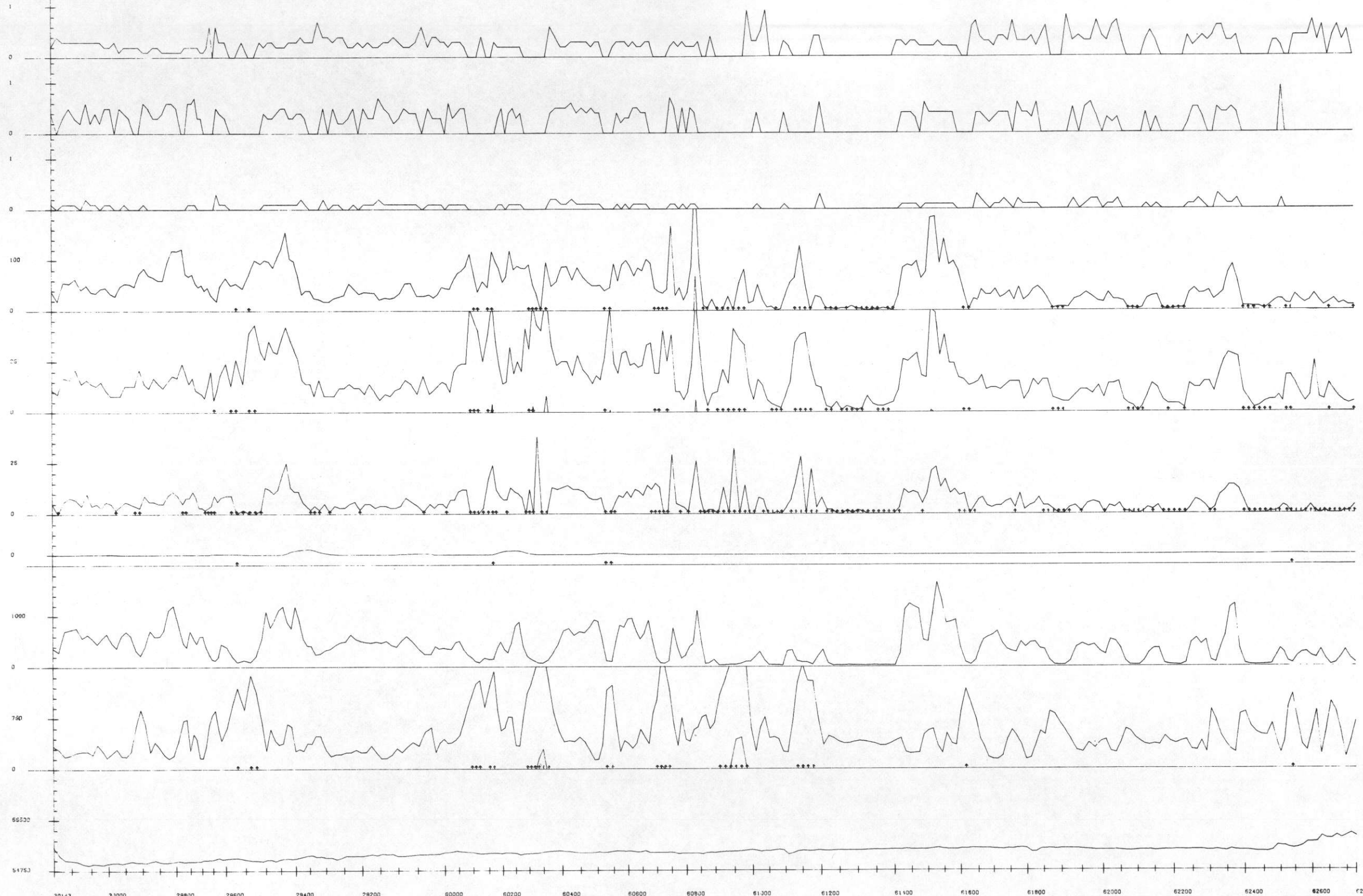
BI
5 C/S/div

BI COR
5.00/div

TC
300 C/S/div

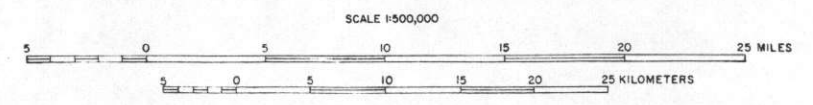
ALT
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MAG
150 GAMMAS/div

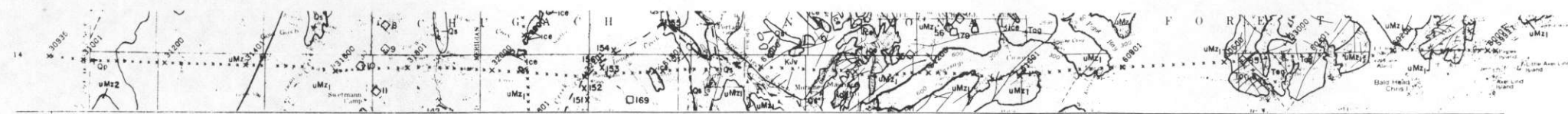


P 13

↑ FLAGGED SAMPLE VALUES OF
K, TL INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



<p>NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY</p> <p>SEWARD, ALASKA</p> <p>RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES 1976-1978</p> <p>BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006</p> <p>PREPARED FOR DEPARTMENT OF ENERGY</p>



TL/K
0.23 DIV

BI/TL
0.23 DIV

BI/K
0.23 DIV

K
20 C/S DIV

TL
5 C/S DIV

BI
5 C/S DIV

BI COR
5 C/S DIV

TC
300 C/S DIV

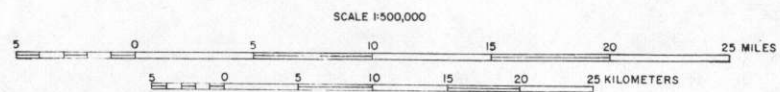
ALT
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MAG
150 GAMMA/DIV

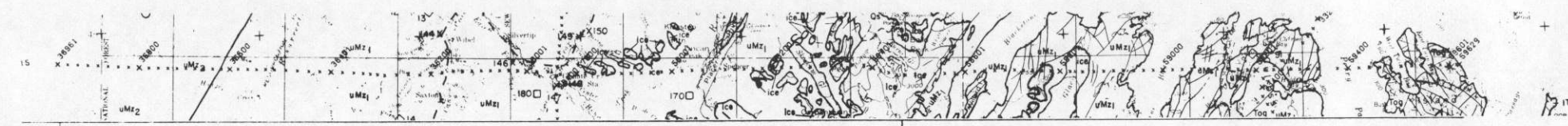
30941 31200 31400 31600 31800 32000 61800 61600 61400 61200 61000 60800 60600 60400 60200 59983

P 14

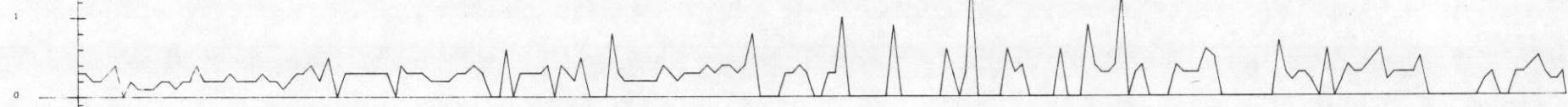
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STATISTICAL ADEQUACY TEST



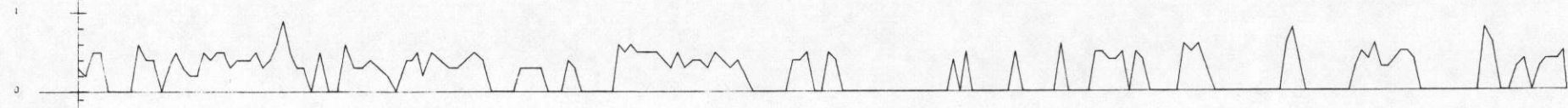
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES 1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



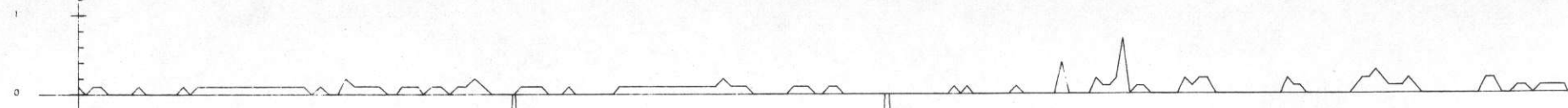
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0.20/DIV



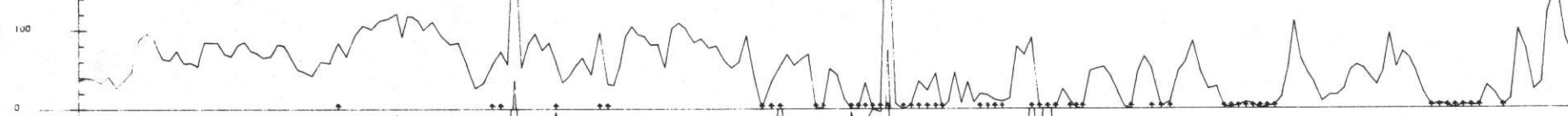
BI/TL
0.20/DIV



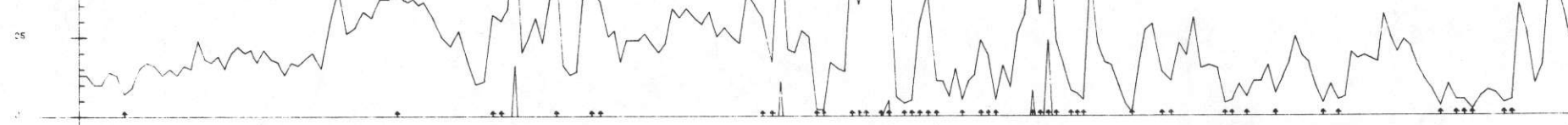
RI/K
0.90/DIV



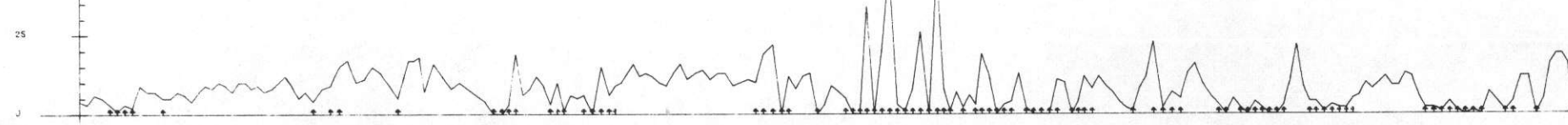
K
20 C/S/DIV



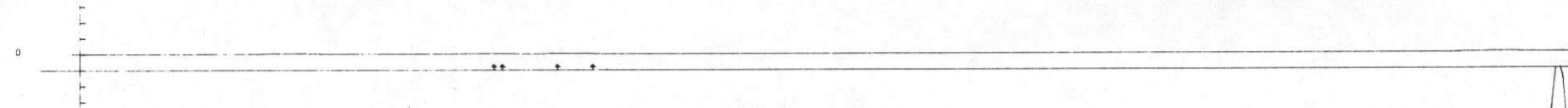
TL
5 C/S/DIV



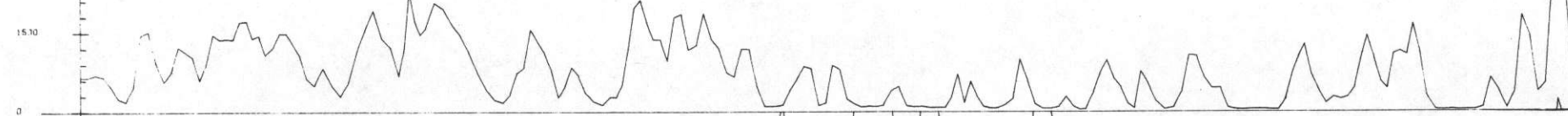
BI
5 C/S/DIV



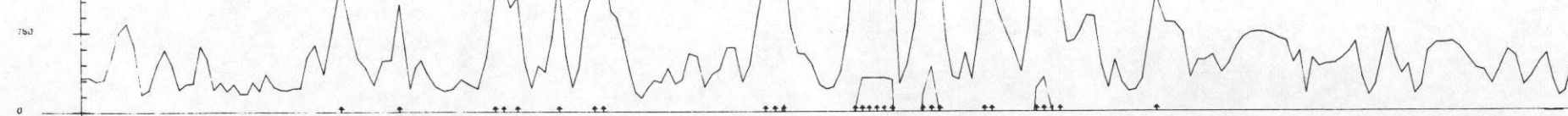
BI COR
5.00/DIV



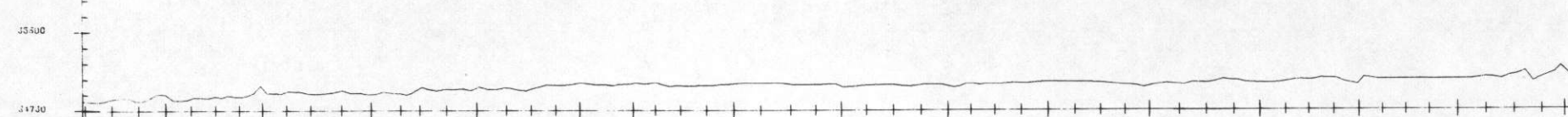
TC
300 C/S/DIV



ALT
100 FT/DIV

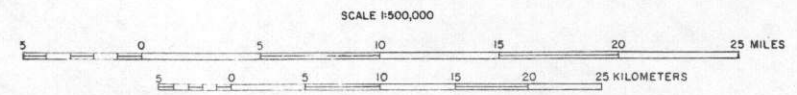


MAG
150 GAMMAS/DIV

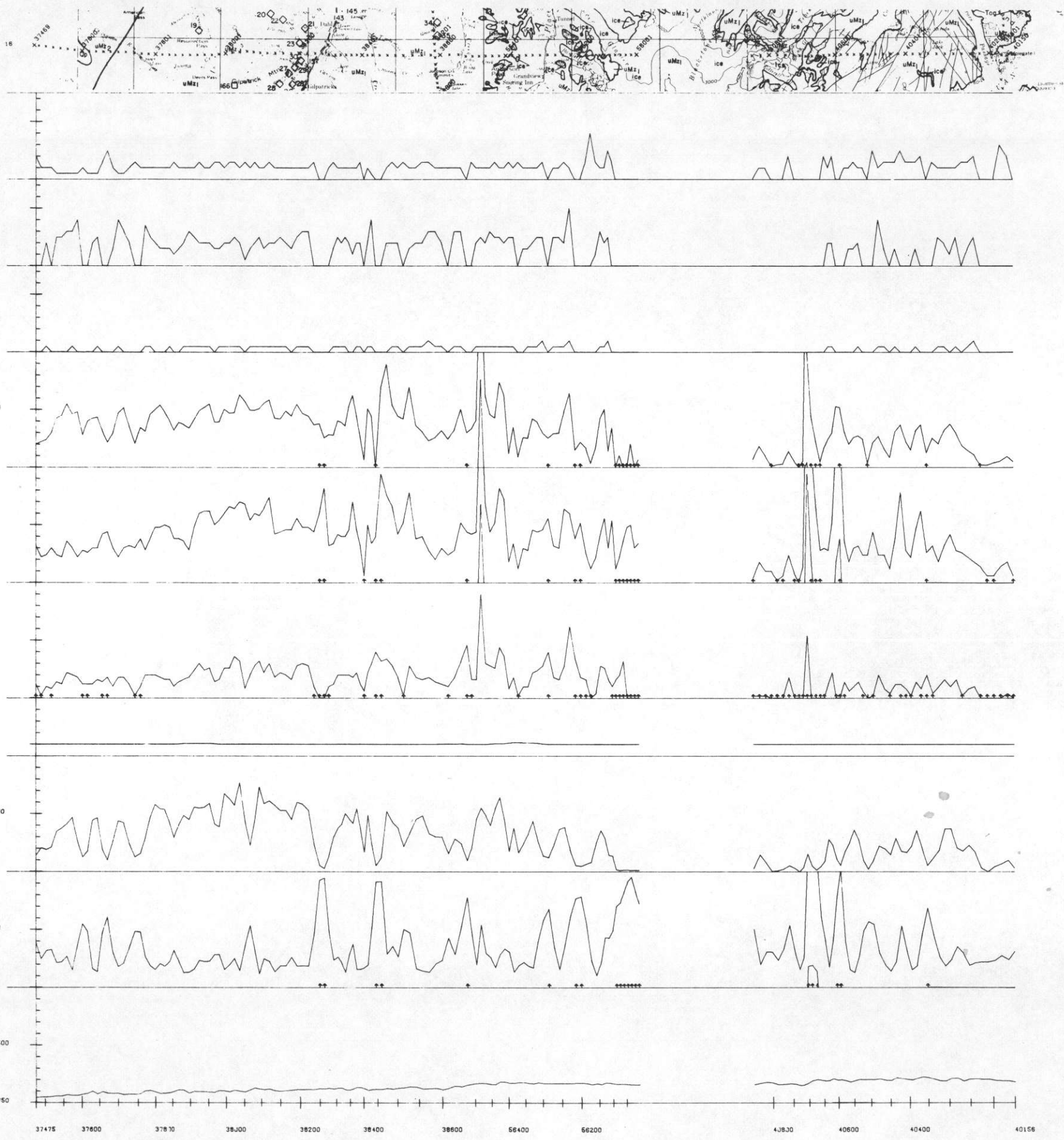


P 15

↑ FLAGGED SAMPLE VALUES OF
K, BI, T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

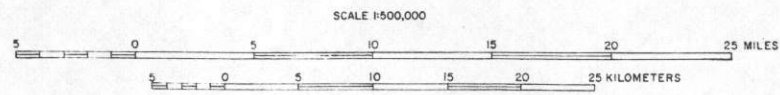


NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY	
SEWARD, ALASKA	
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES 1976-1978	
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006	
PREPARED FOR DEPARTMENT OF ENERGY	

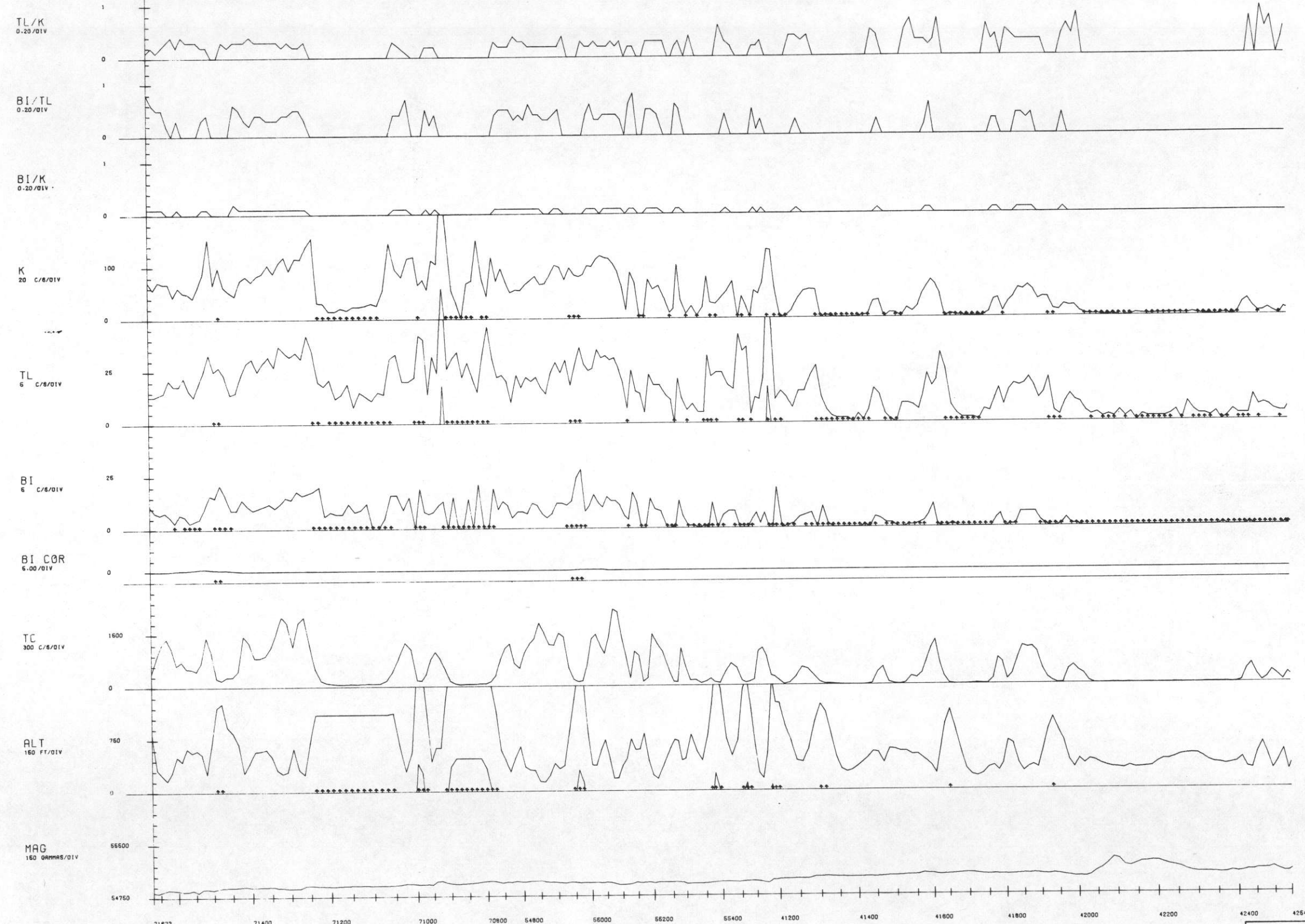
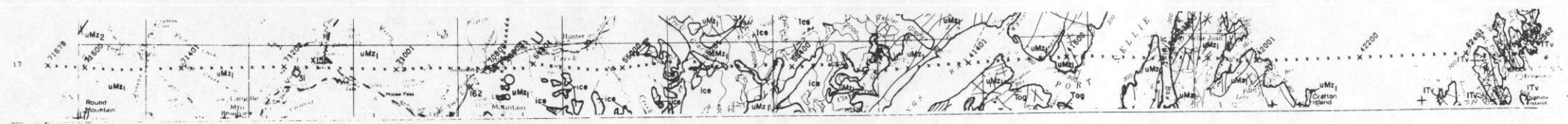


P 16

↑ FLAGGED SAMPLE VALUES OF
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STATISTICAL ADEQUACY TEST

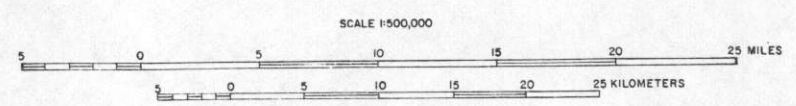


<p>NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY</p> <p>SEWARD, ALASKA</p> <p>RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES</p> <p>1976-1978</p> <p>BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006</p> <p>PREPARED FOR DEPARTMENT OF ENERGY</p>
--

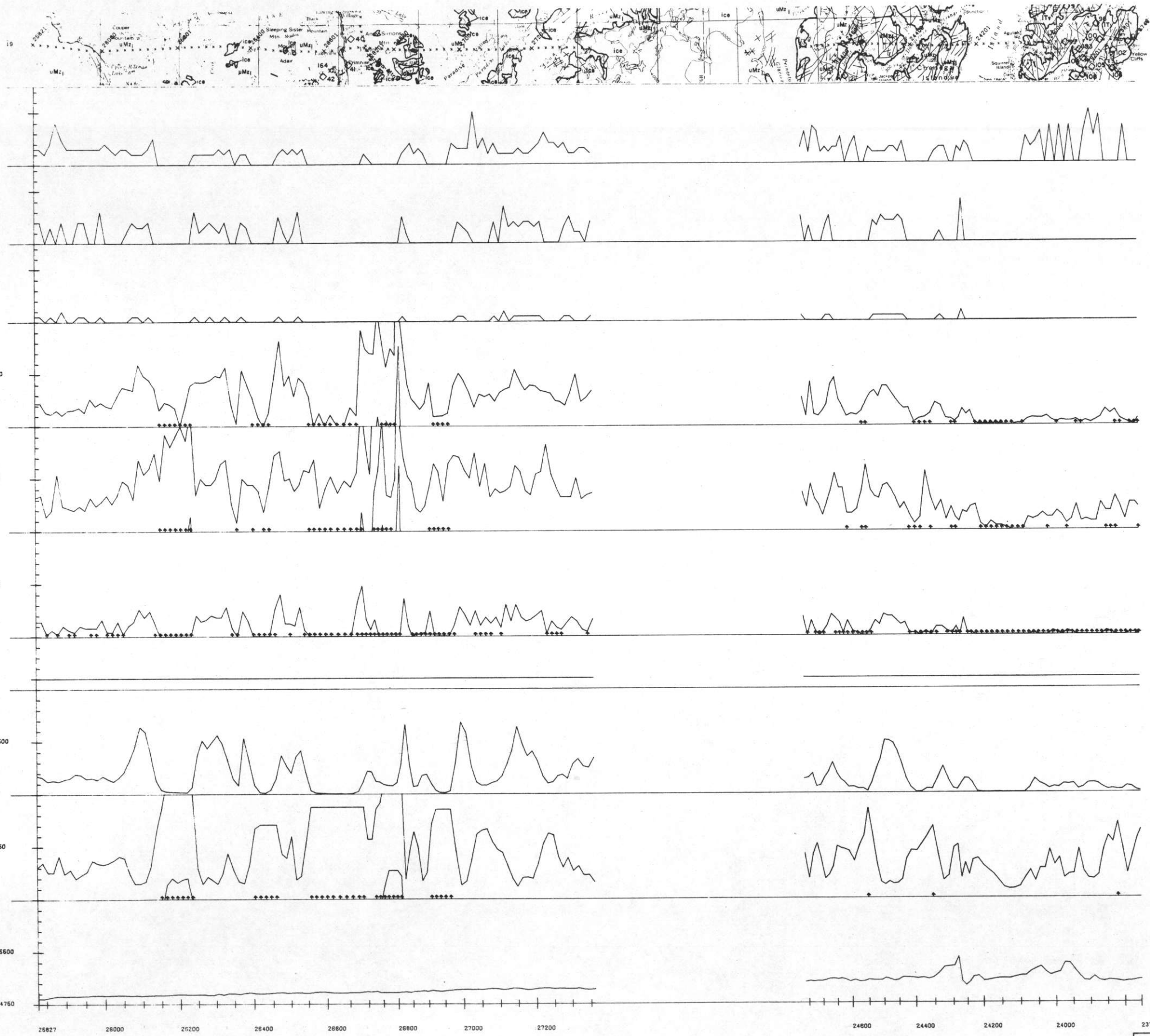


P 17

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STATISTICAL ADEQUACY TEST

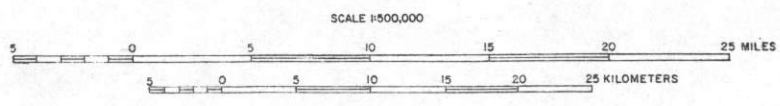


NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES
1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY

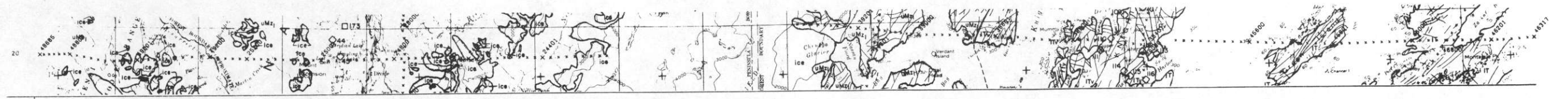


P 19

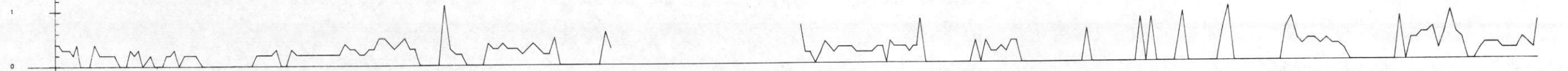
▲ FLAGGED SAMPLE VALUES OF
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STATISTICAL ADEQUACY TEST



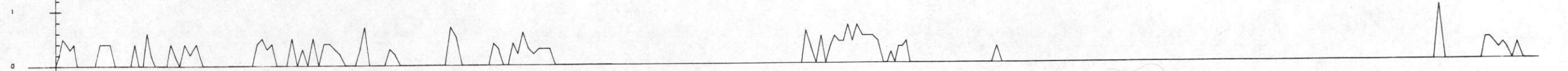
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES
1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



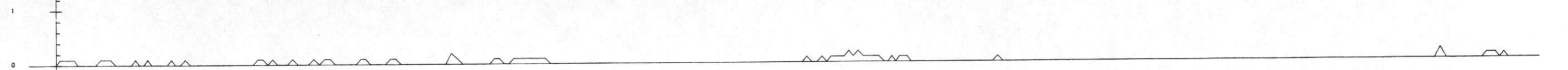
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0.20/DIV



BI/TL
0.20/DIV



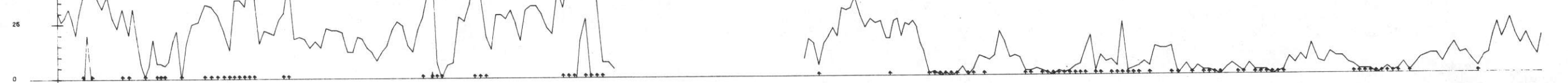
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0.20/DIV



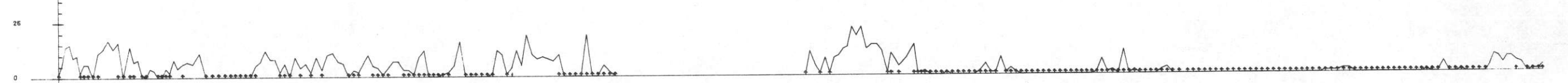
K
20 C/S/DIV



TL
5 C/S/DIV



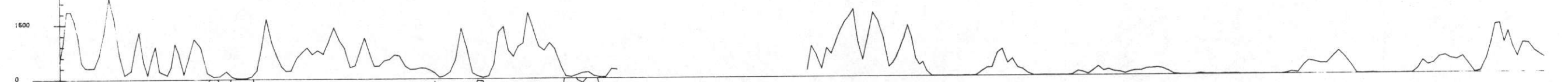
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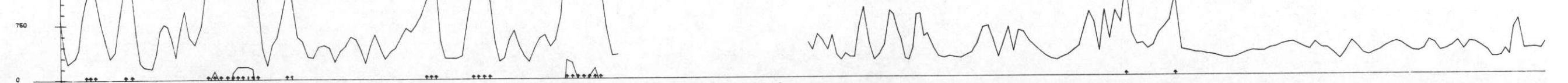
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5.00/DIV



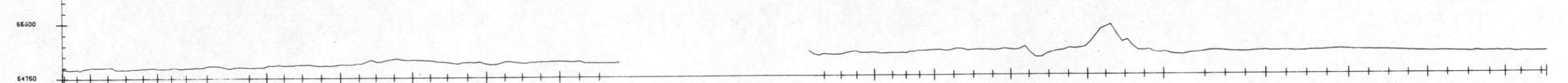
TC
300 C/S/DIV



ALT
160 FT/DIV

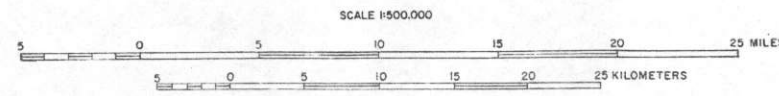


MAG
160 GAMMAS/DIV

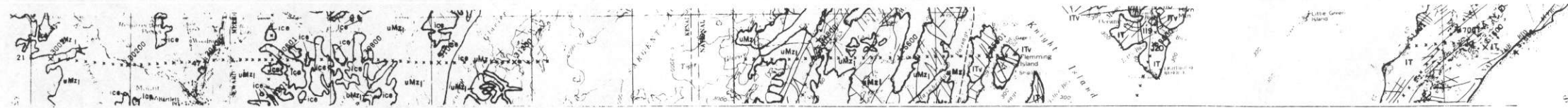


P 20

↑ FLAGGED SAMPLE VALUES OF
K, T, INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY	
SEWARD, ALASKA	
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES	
1976-1978	
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006	
PREPARED FOR DEPARTMENT OF ENERGY	



TL/K
0.23/DIV



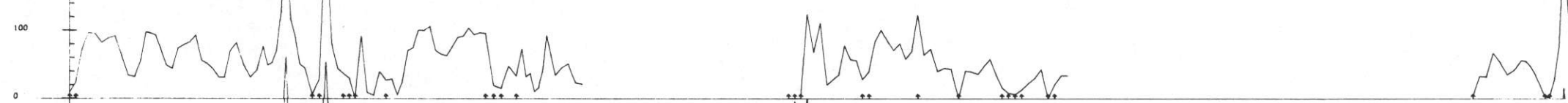
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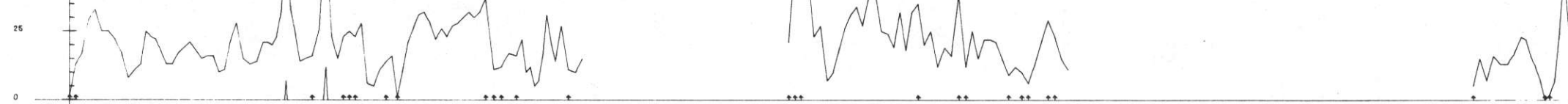
BI/K
0.20/DIV



K
20 C/S/DIV



TL
5 C/S/DIV



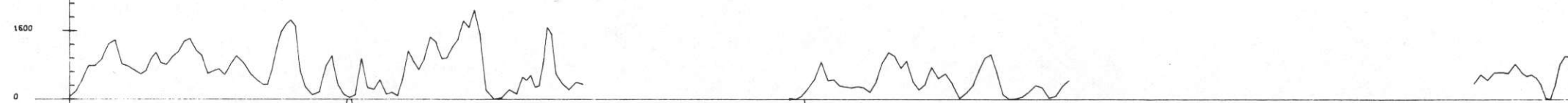
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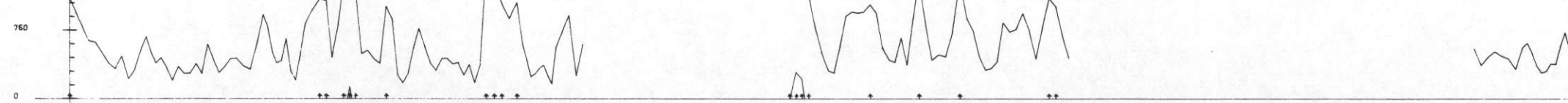
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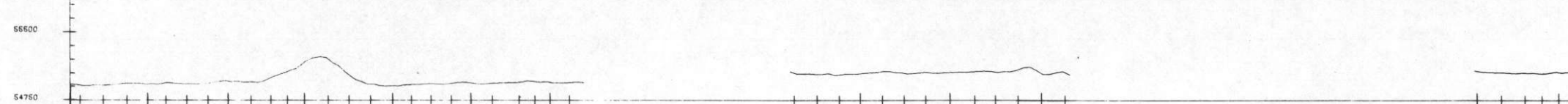
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ALT
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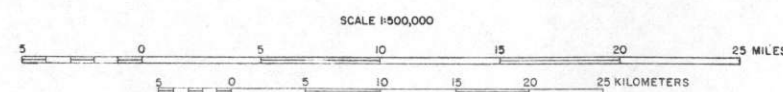


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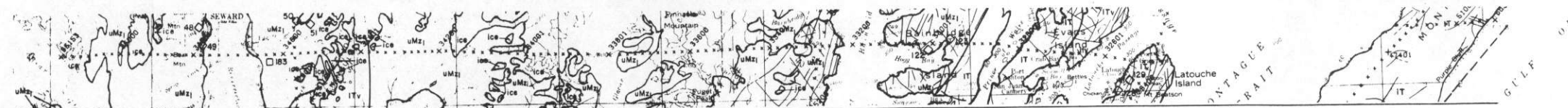


P 21

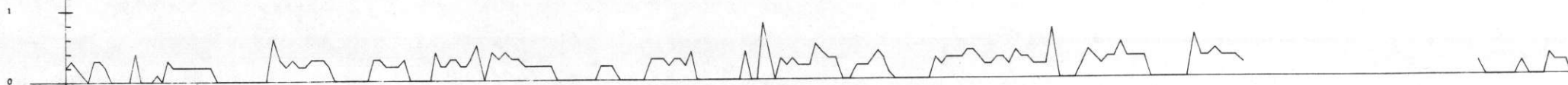
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STATISTICAL ADEQUACY TEST



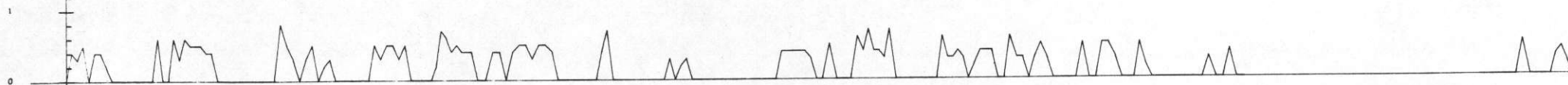
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES 1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



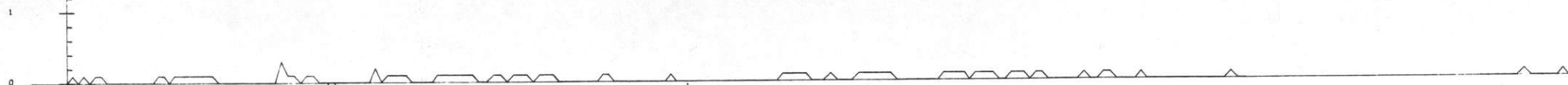
TL/K
0.20/DIV



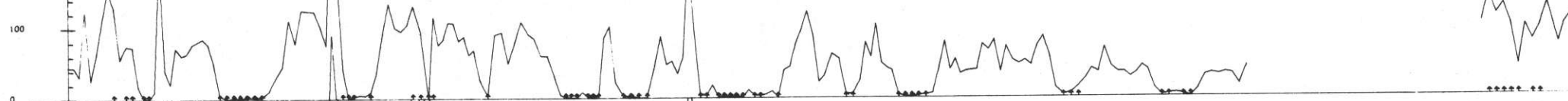
BI/TL
0.20/DIV



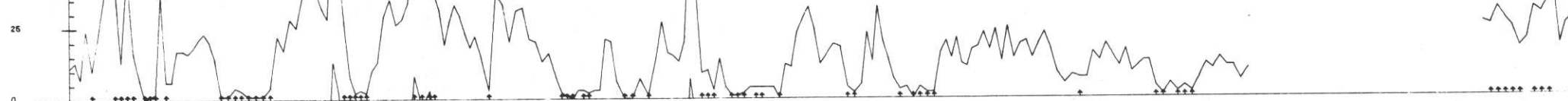
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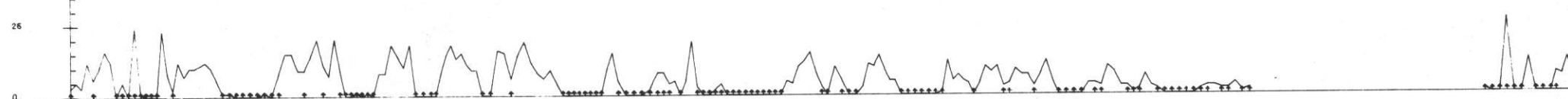
K
20 C/S/DIV



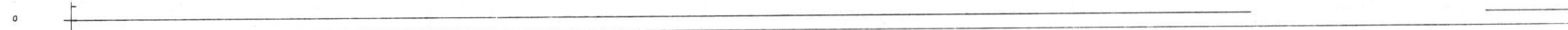
TL
5 C/S/DIV



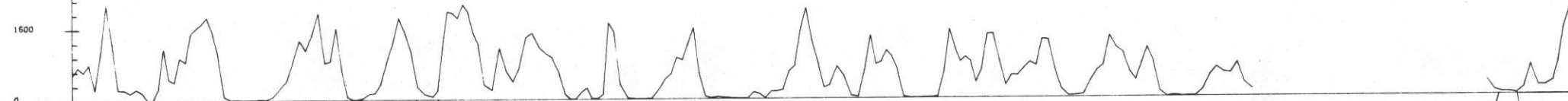
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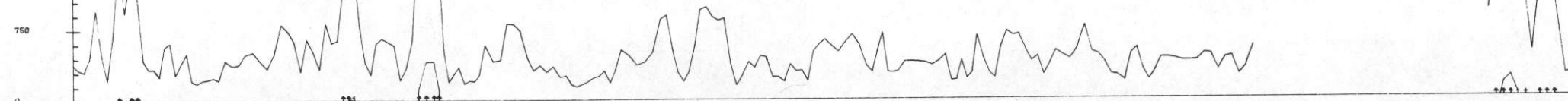
BI COR
5.00/DIV



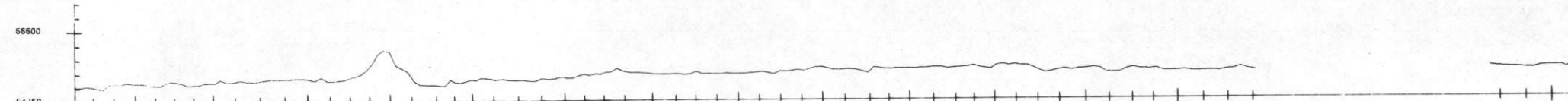
TC
300 C/S/DIV



ALT
150 FT/DIV

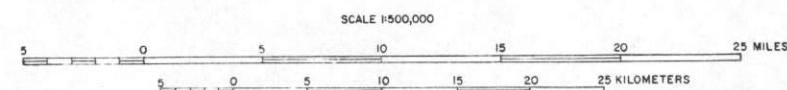


MAG
150 GRAMS/DIV



P 20

↑ FLAGGED SAMPLE VALUES OF
K,U,I INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



51000 50910

NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEY

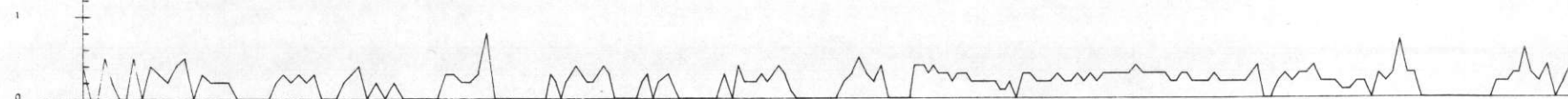
SEWARD, ALASKA
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

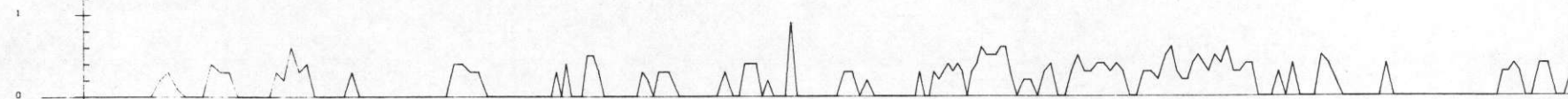
PREPARED FOR
DEPARTMENT OF ENERGY



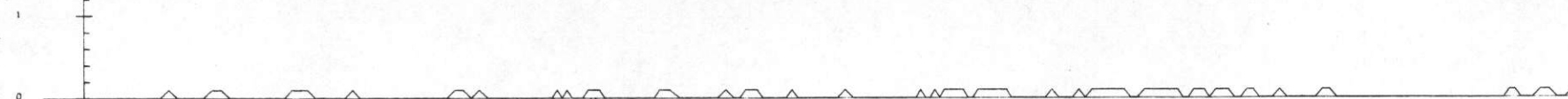
TL/K
0.20/DIV



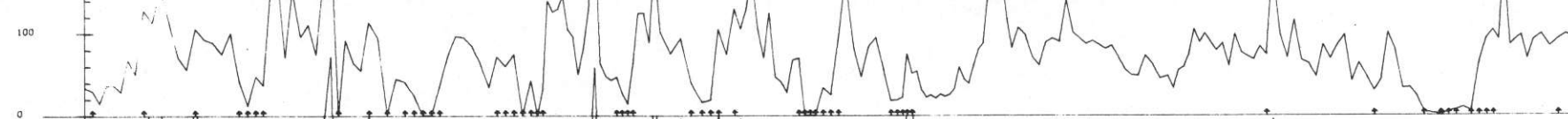
BI/TL
0.20/DIV



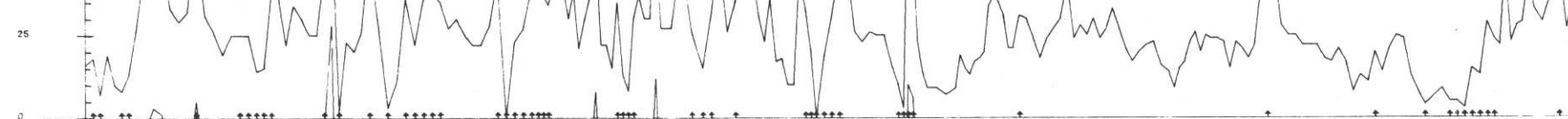
BI/K
0.20/DIV



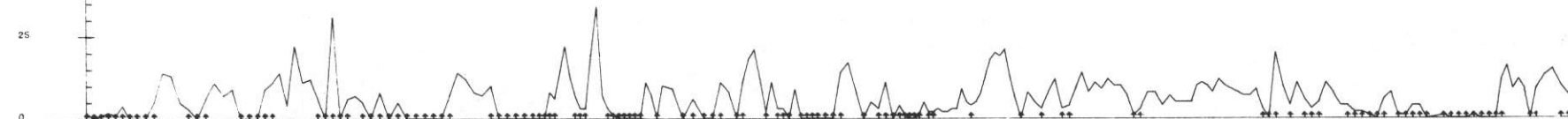
K
20 C/S/DIV



TL
5 C/S/DIV



BI
5 C/S/DIV



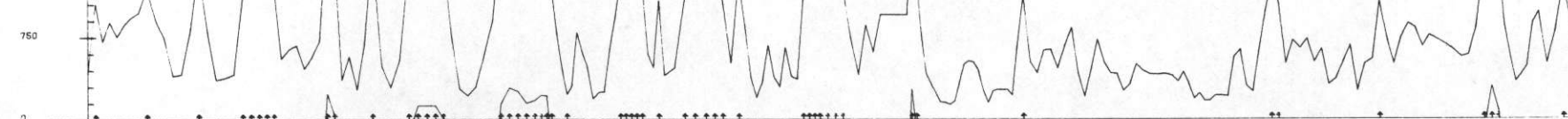
BI COR
5.00/DIV



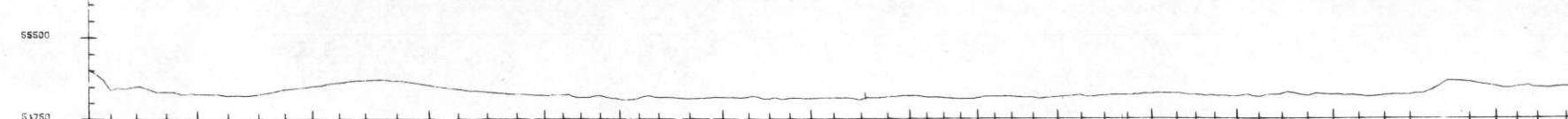
TC
300 C/S/DIV



ALT
160 FT/DIV

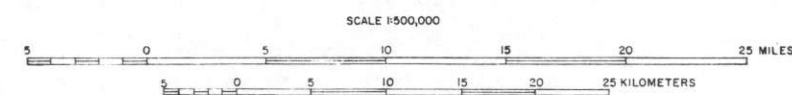


MAG
150 GAMMAS/DIV

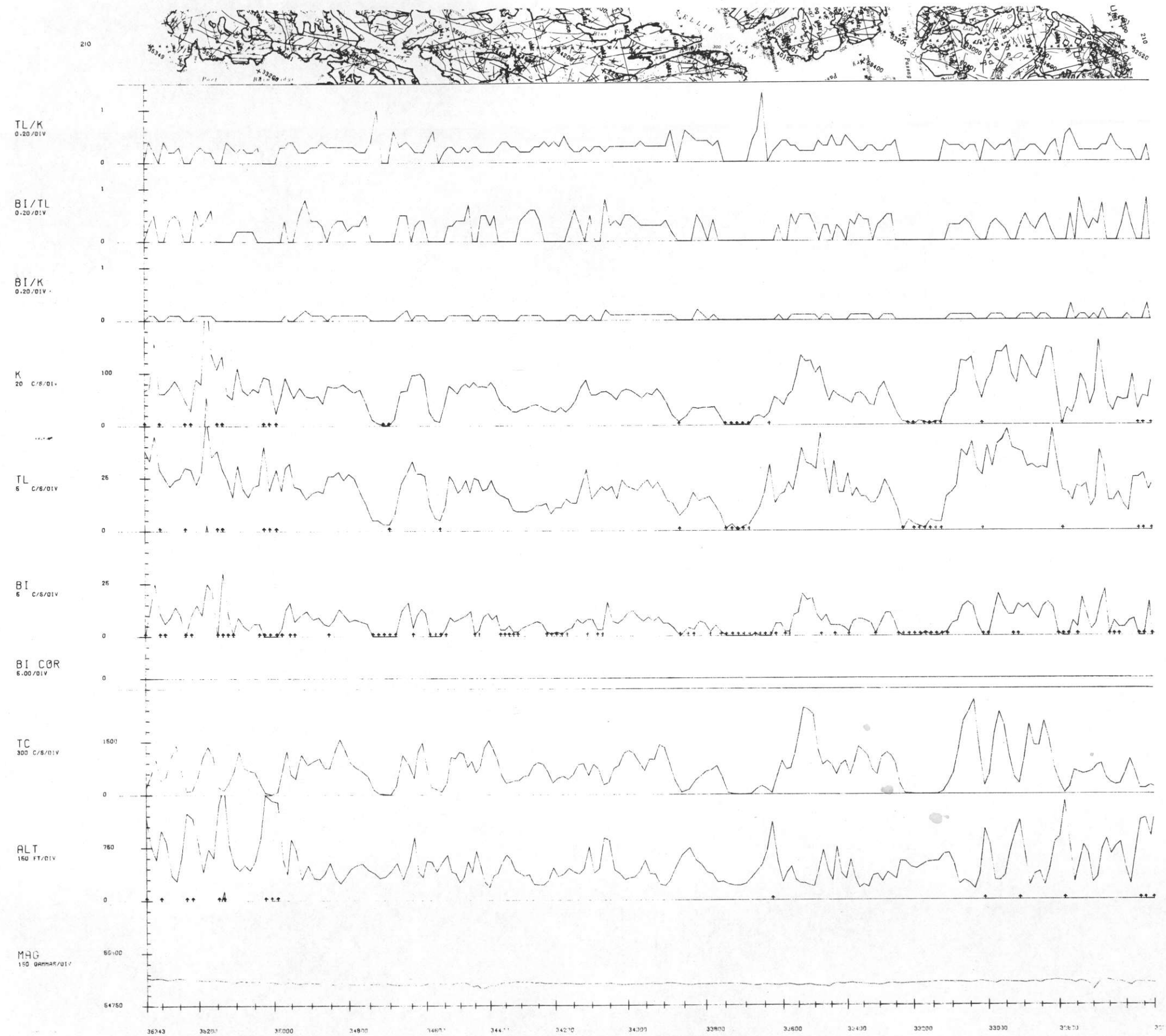


TL 209

↑ FLAGGED SAMPLE VALUES OF
K, T, INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES
1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



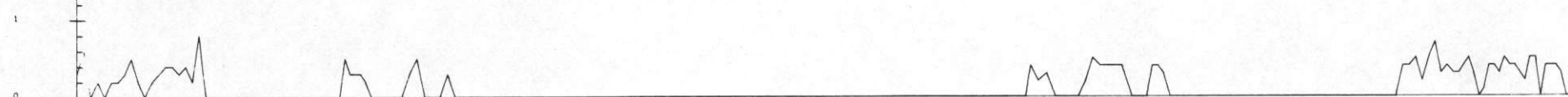
<p>NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY</p> <p>SEWARD, ALASKA</p> <p>RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES 1976-1978</p> <p>BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006</p> <p>PREPARED FOR DEPARTMENT OF ENERGY</p>



TL/K
0.20/DIV



BI/TL
0.20/DIV



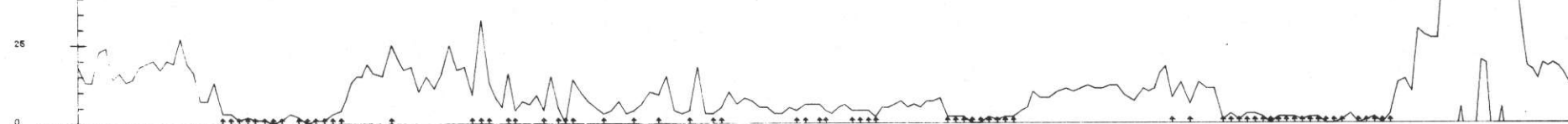
BI/K
0.20/DIV



K
20 C/S/DIV



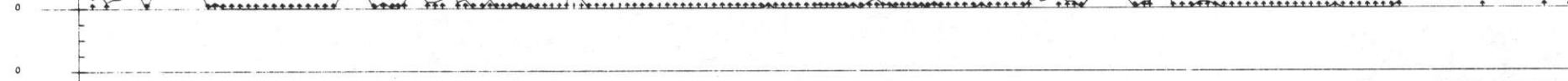
TL
5 C/S/DIV



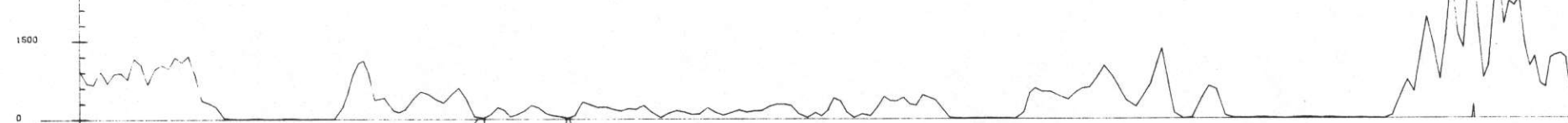
BI
5 C/S/DIV



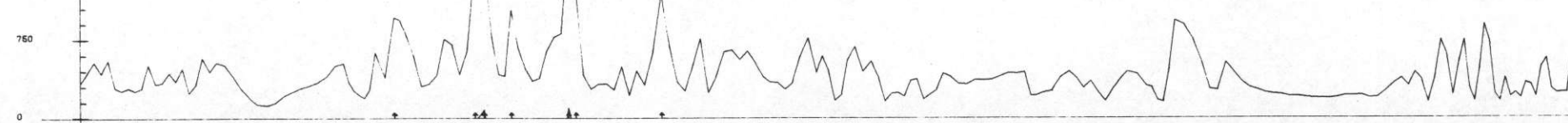
BI COR
5.00/DIV



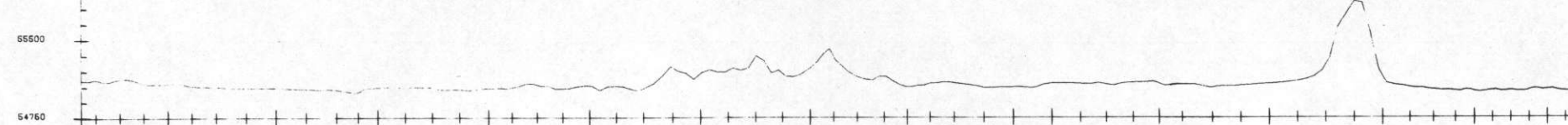
TC
300 C/S/DIV



ALT
150 FT/DIV

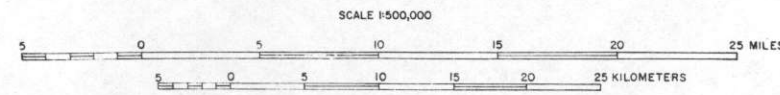


MAG
150 GRAMS/DIV

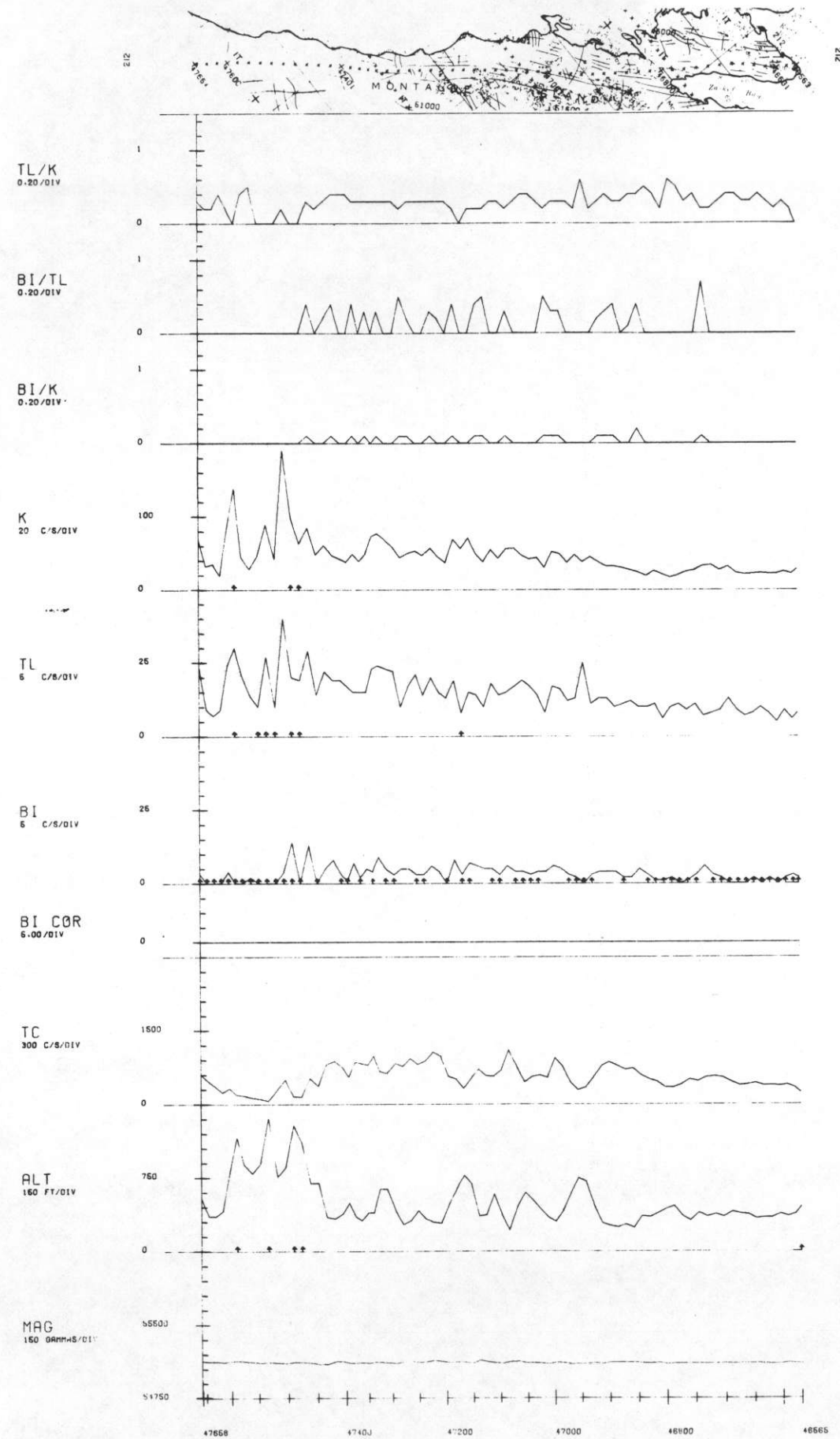


TL 211

↑ FLAGGED SAMPLE VALUES OF
K,U,T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

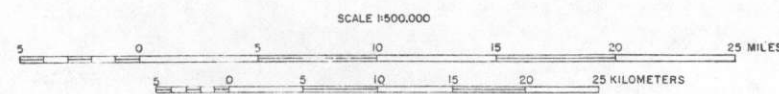


NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES 1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006 PREPARED FOR DEPARTMENT OF ENERGY

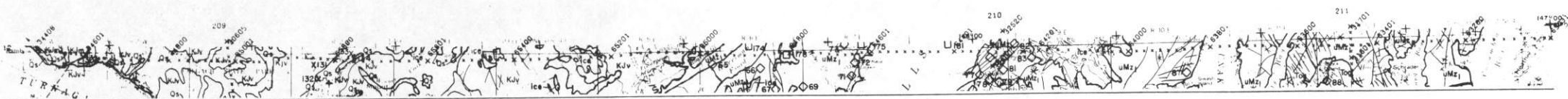


TL 212

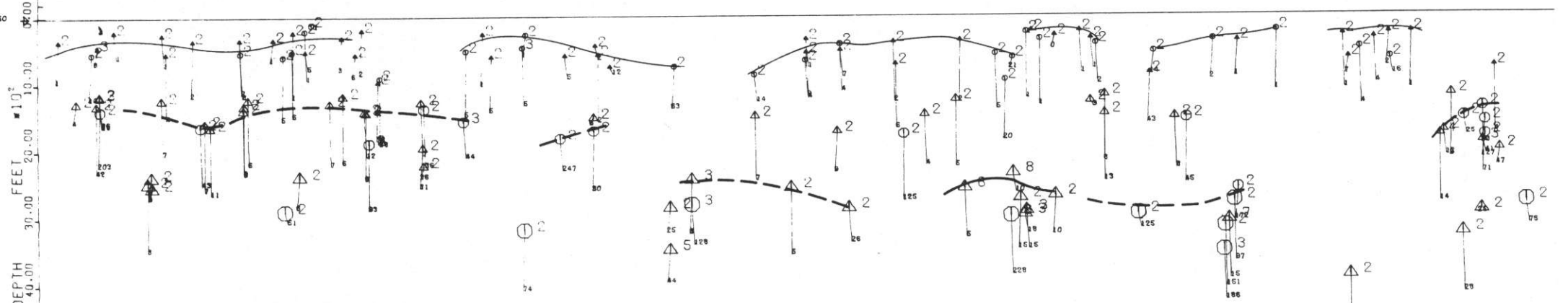
↑ FLAGGED SAMPLE VALUES OF
K, U, T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



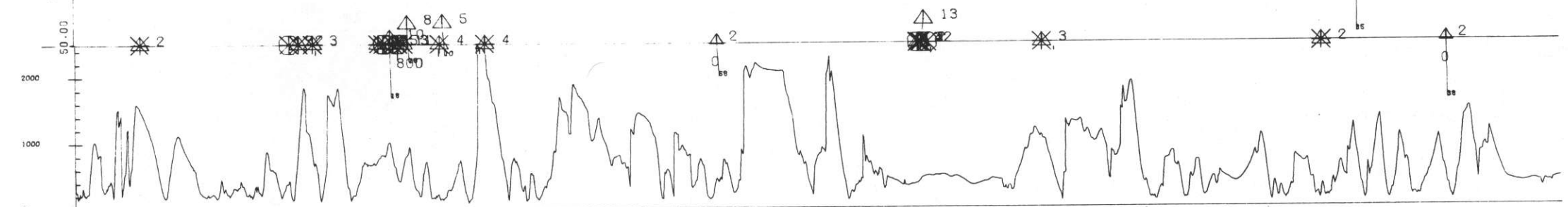
<p>NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY</p> <p>SEWARD, ALASKA</p> <p>RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES</p> <p>1976-1978</p> <p>BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006</p> <p>PREPARED FOR DEPARTMENT OF ENERGY</p>
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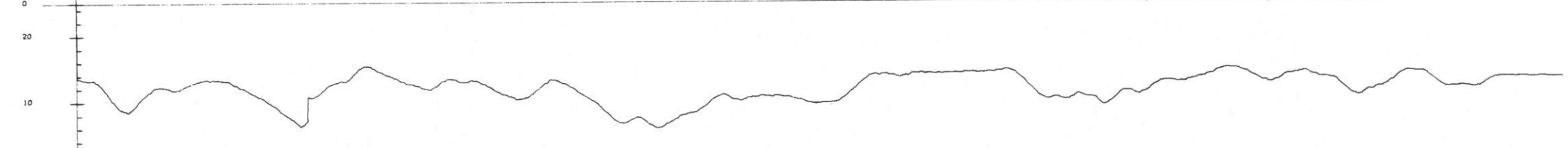
MAG
25 GAMMAS/DIV



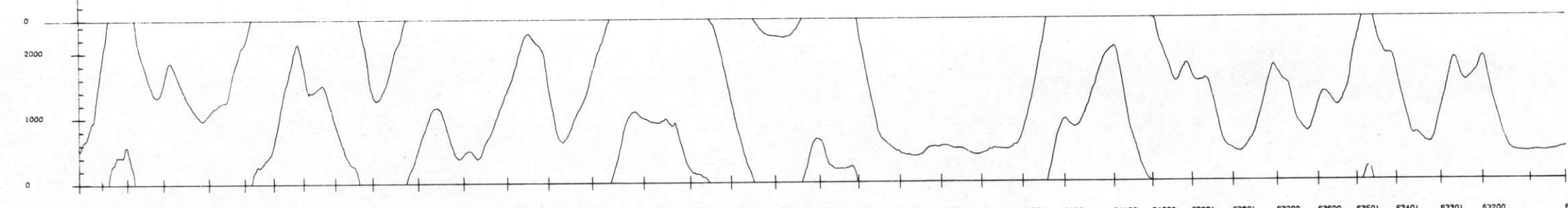
ALT
200 FT/DIV



TEMP
2.00 DEGREES/DIV

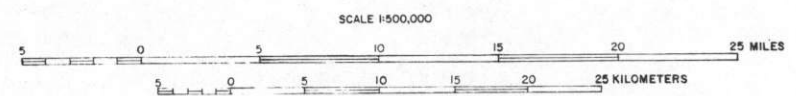


BAR ALT
200 FT/DIV



P 12

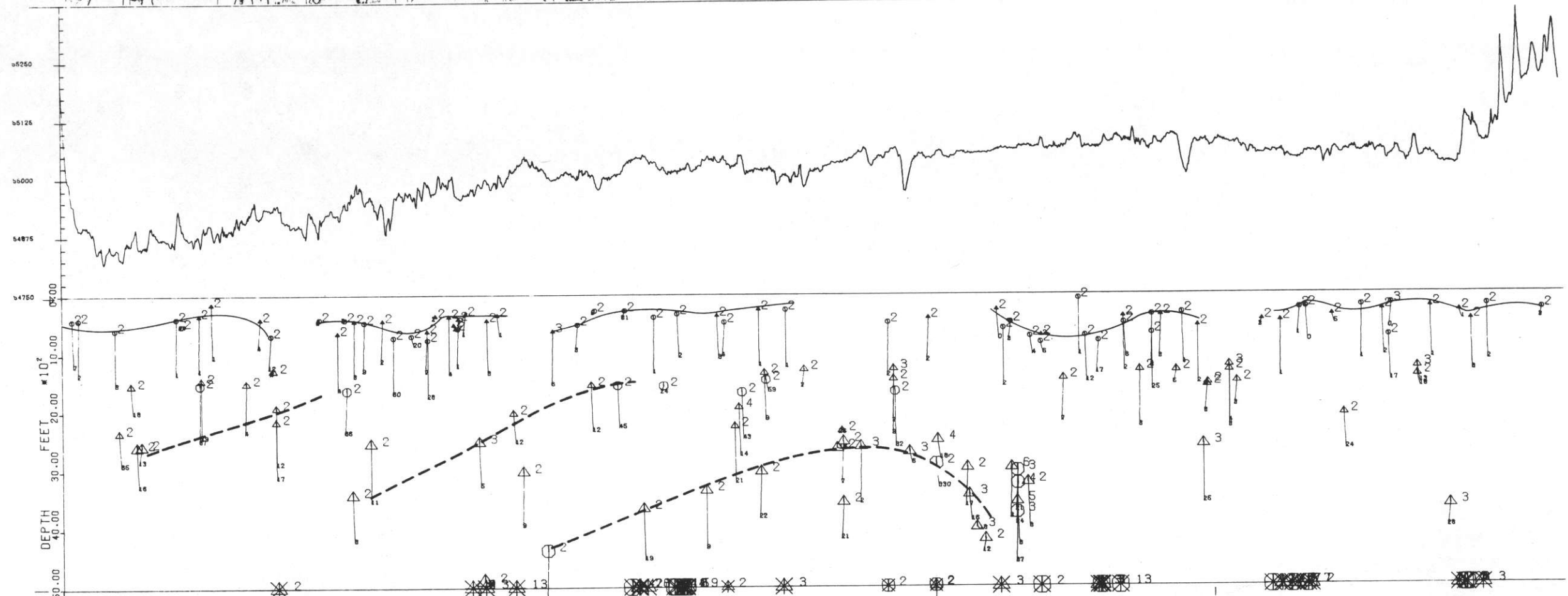
↑ EXCEEDS ALTITUDE SPECIFICATIONS



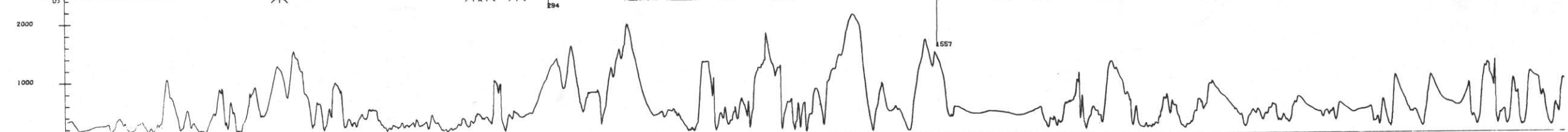
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA 19006
PREPARED FOR DEPARTMENT OF ENERGY



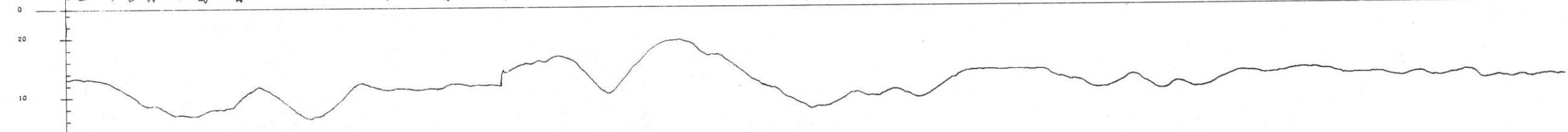
MAG
25 GAMMAS/DIV



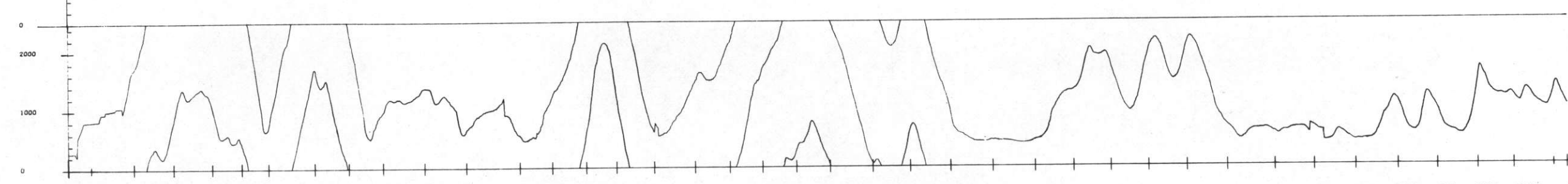
ALT
200 FT/DIV



TEMP
2.00 DEGREES/DIV

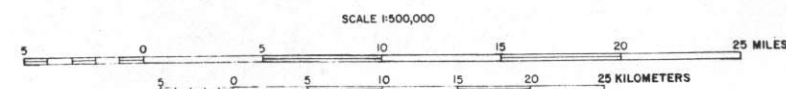


BAR ALT
200 FT/DIV

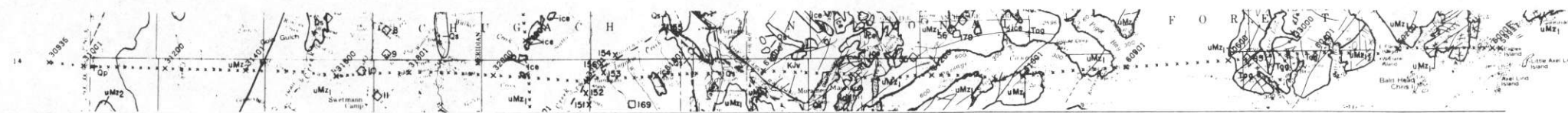


P 13

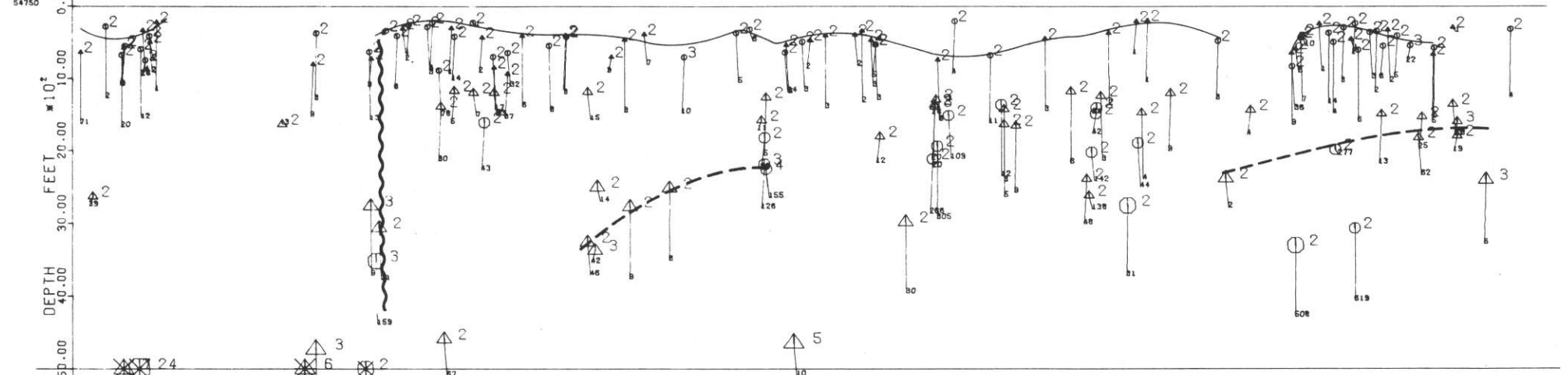
↑ EXCEEDS ALTITUDE SPECIFICATIONS



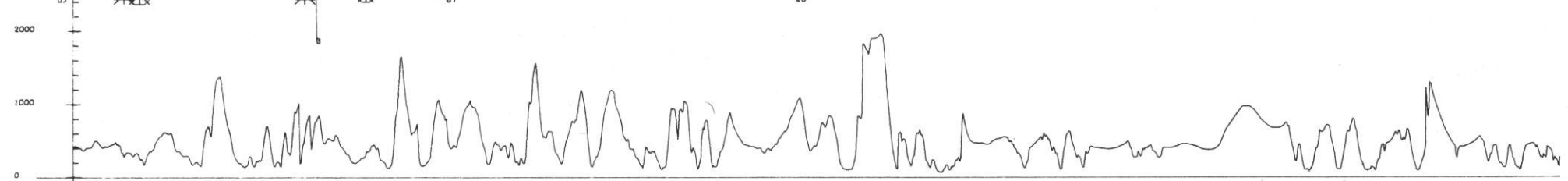
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1976 - 1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



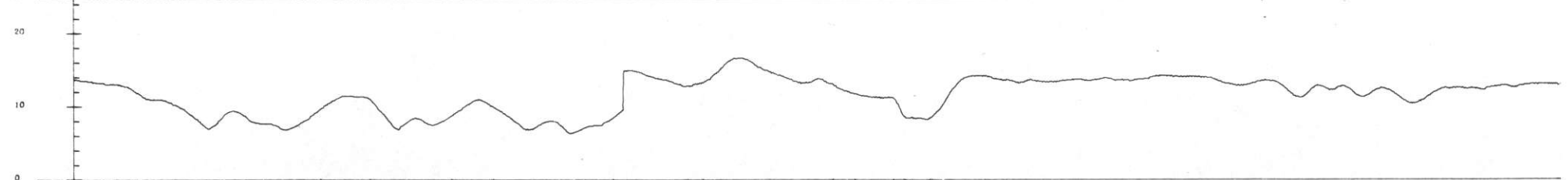
MAG
25 GAMMAS/DIV



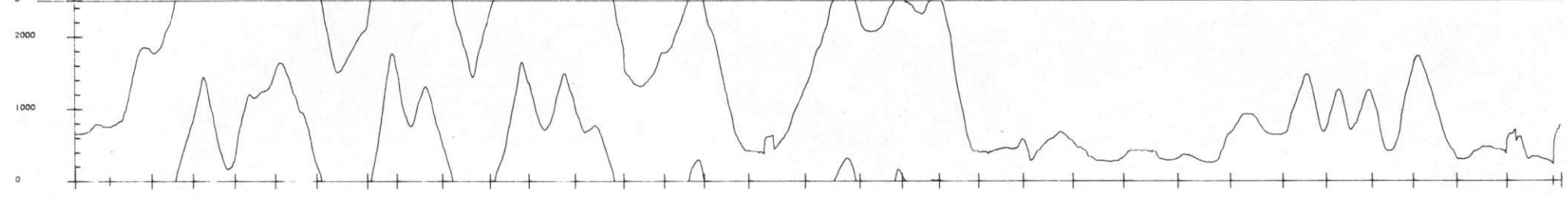
ALT
200 FT/DIV



TEMP
2.00 DEGREES/DIV



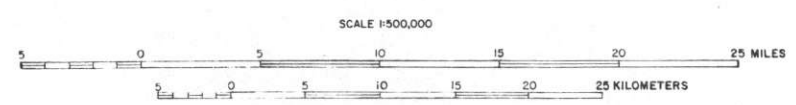
BAR ALT
200 FT/DIV



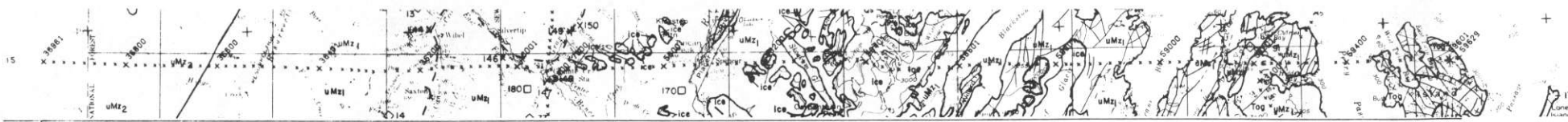
30935 31100 31200 31301 31401 31500 31600 31701 31801 31900 32000 32100 32201 61901 61801 61700 61600 61500 61401 61301 61200 61100 61001 60901 60801 60700 60600 60501 60401 60300 60200 60101 59977

P 14

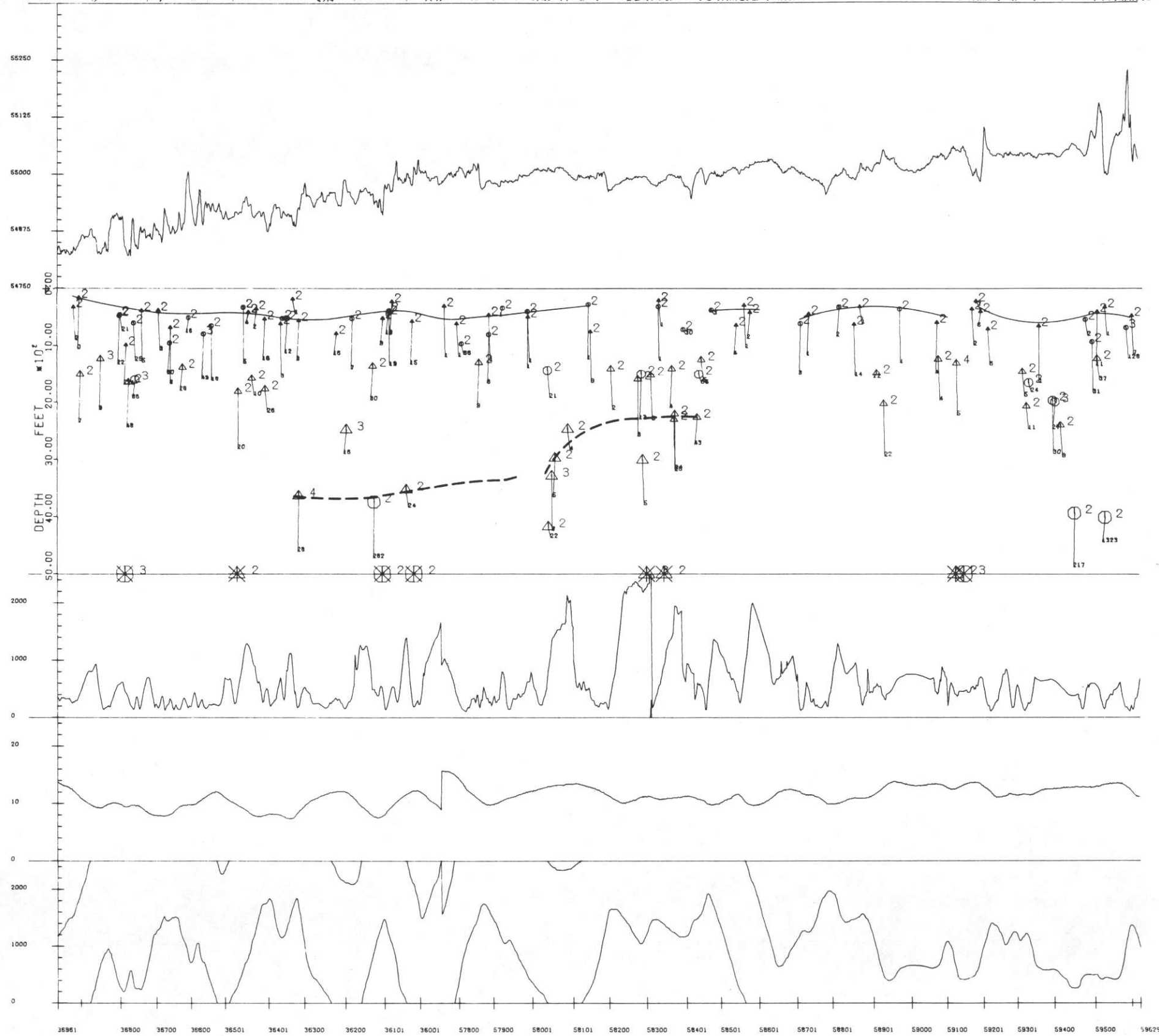
↑ EXCEEDS ALTITUDE SPECIFICATIONS



NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY

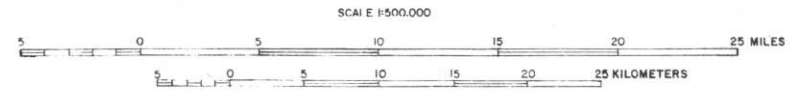


MAG
25 GAMMAS/DIV

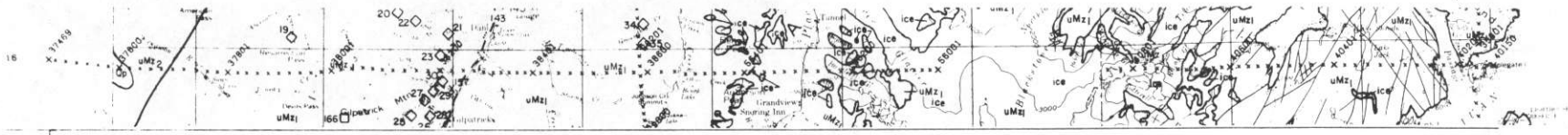


P 15

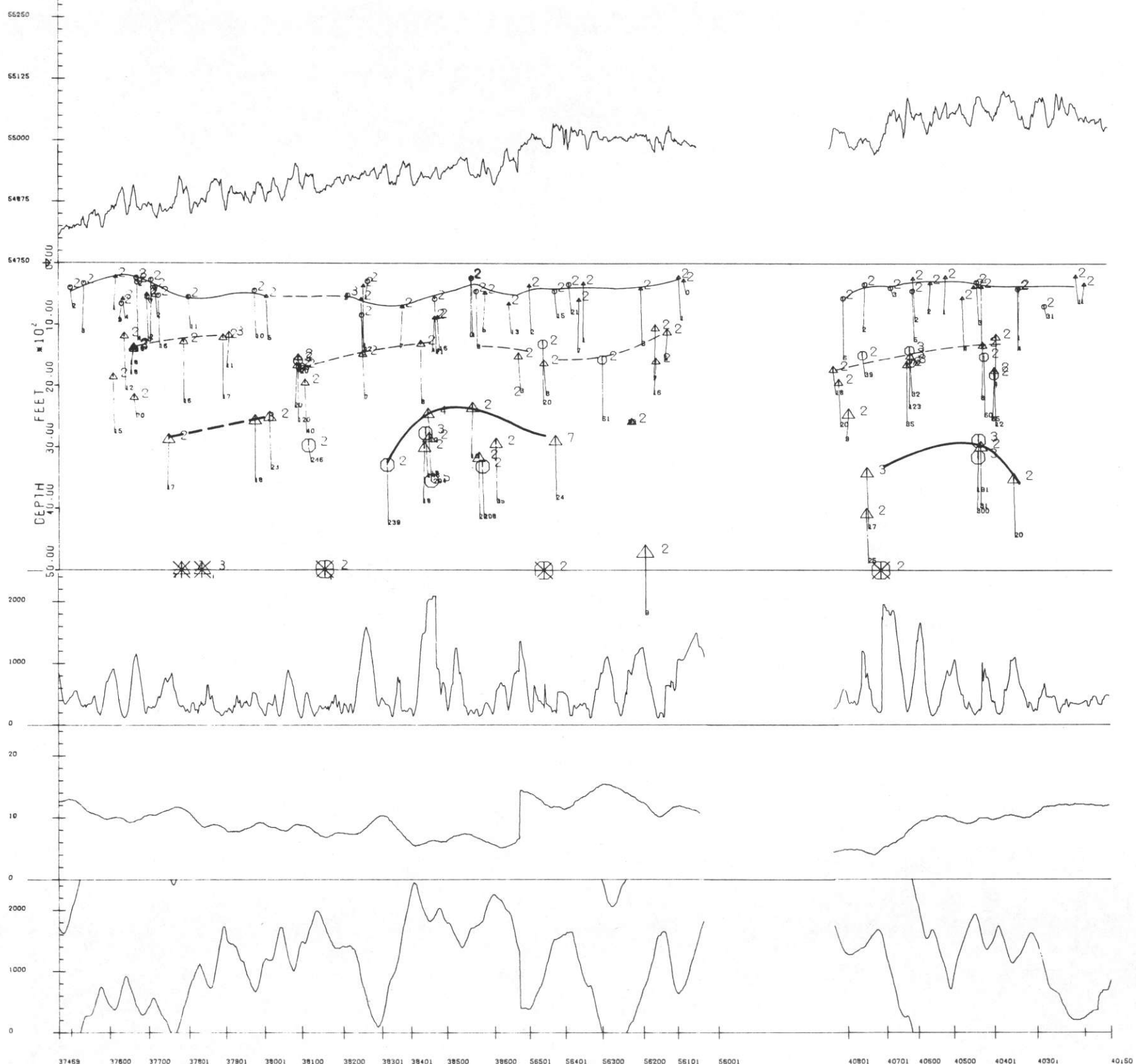
↑ EXCEEDS ALTITUDE SPECIFICATIONS



<p>NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY</p> <p>SEWARD, ALASKA</p> <p>MAGNETIC AND ANCILLARY STACKED PROFILE DATA</p> <p>1976-1978</p> <p>BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006</p> <p>PREPARED FOR DEPARTMENT OF ENERGY</p>
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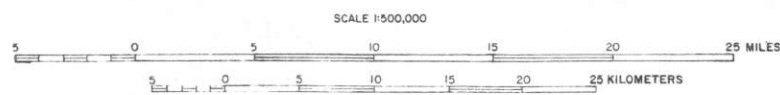


MAG
25 GAMMAS/DIV



P 16

↑ EXCEEDS ALTITUDE SPECIFICATIONS



NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEY

SEWARD, ALASKA

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

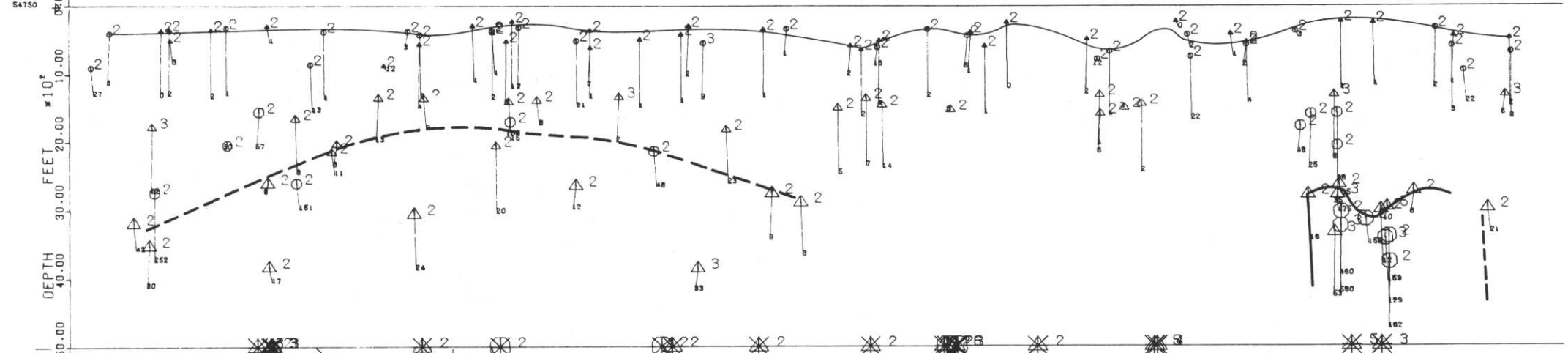
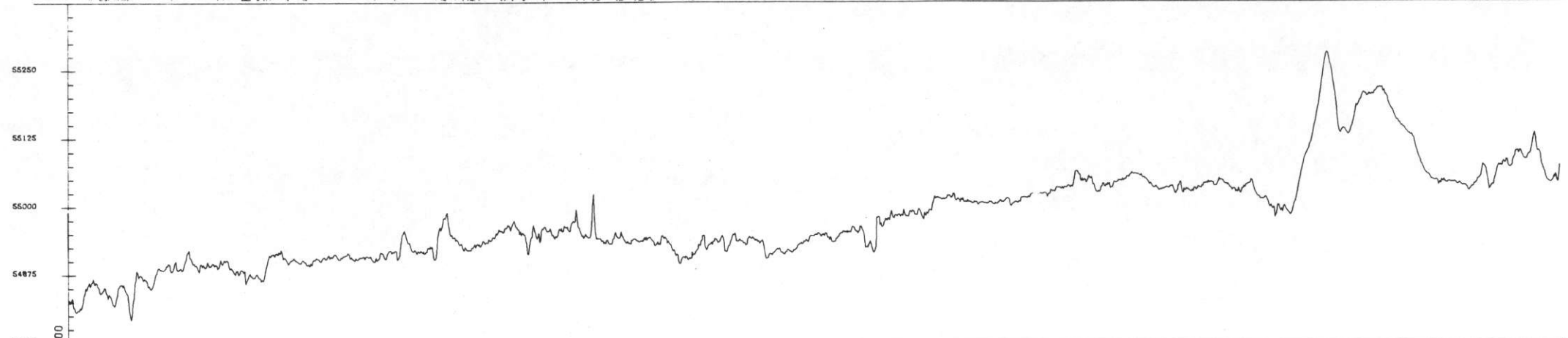
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

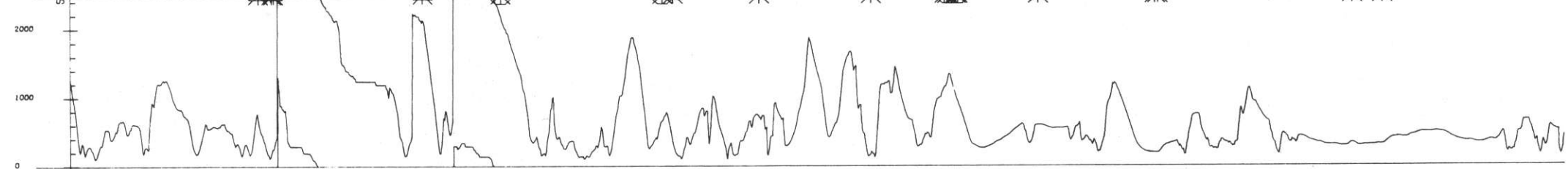
PREPARED FOR
DEPARTMENT OF ENERGY



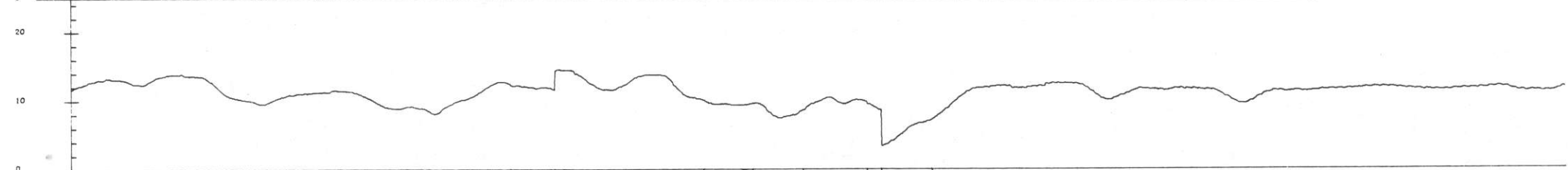
MAG
25 GAMMAS/DIV



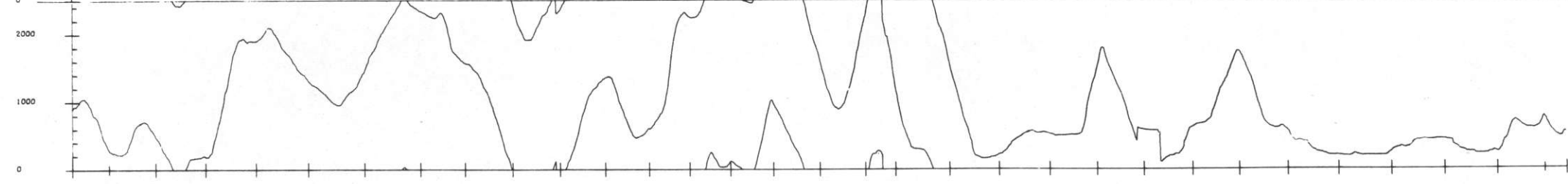
ALT
200 FT/DIV



TEMP
2.00 DEGREES/DIV

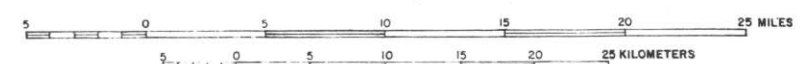


BAR ALT
200 FT/DIV



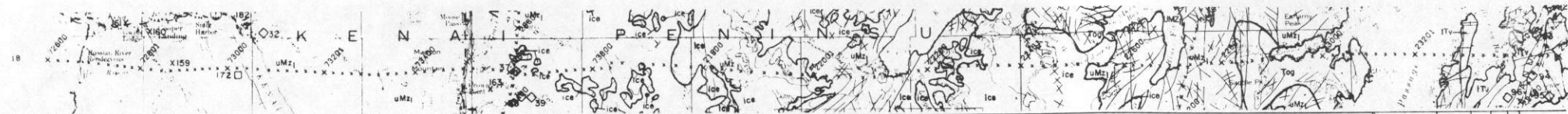
P 17

SCALE 1:500,000



↑ EXCEEDS ALTITUDE SPECIFICATIONS

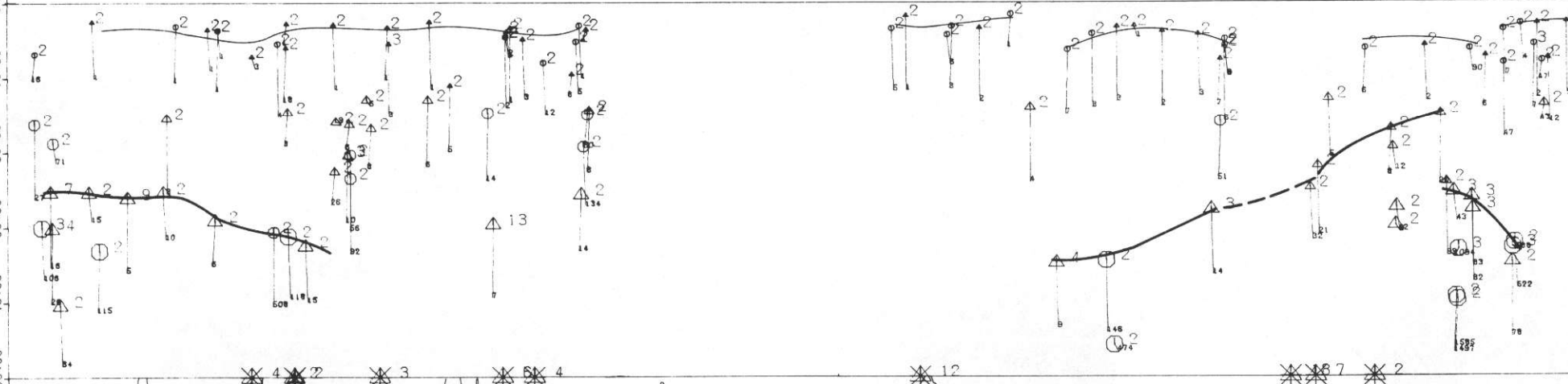
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY	
SEWARD, ALASKA	
MAGNETIC AND ANCILLARY STACKED PROFILE DATA	
1976-1978	
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006	
PREPARED FOR DEPARTMENT OF ENERGY	



MAG
25 GRAMAS/DIV

51375
51250
51125
51000
50875

DEPTH
0.00
10.00
20.00
30.00
40.00
50.00



ALT
200 FT/DIV

2000
1000
0

TEMP
2.00 DEGREES/DIV

20
10
0

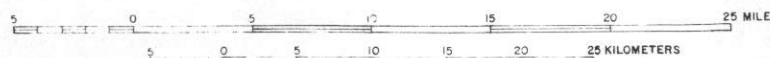
BAR ALT
200 FT/DIV

2000
1000
0

72600 72701 72801 72901 73000 73100 73201 73301 73400 73500 73601 73701 73800 21700 21800 21901 22001 22101 22200 22300 22401 22501 22600 22700 22801 22901 23000 23100 23201 23301 23401 23504

P 18

SCALE 1:500,000



↑ EXCEEDS ALTITUDE SPECIFICATIONS

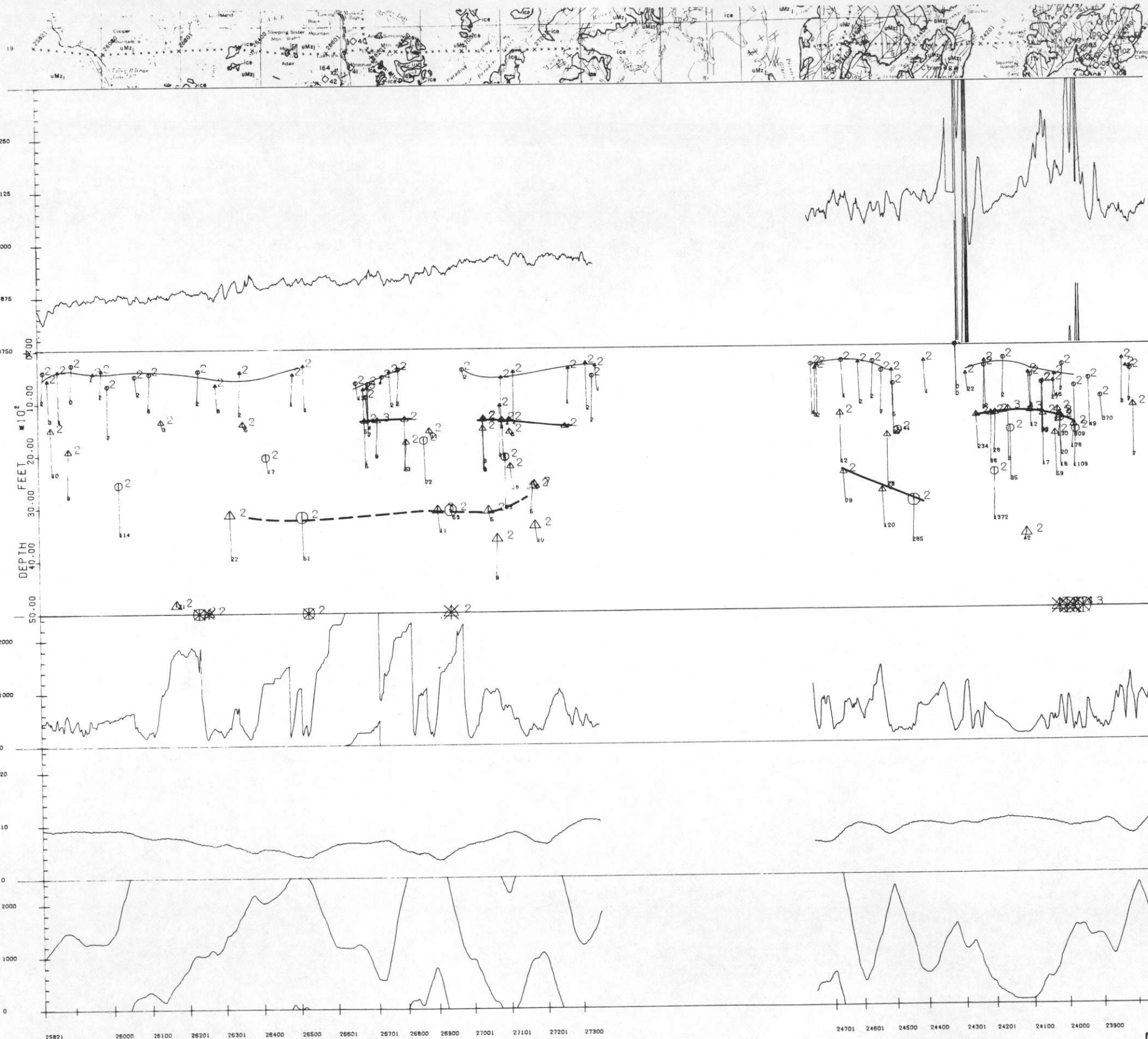
NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEY

SEWARD, ALASKA
MAGNETIC AND ANCILLARY STACKED PROFILE DATA

1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR
DEPARTMENT OF ENERGY

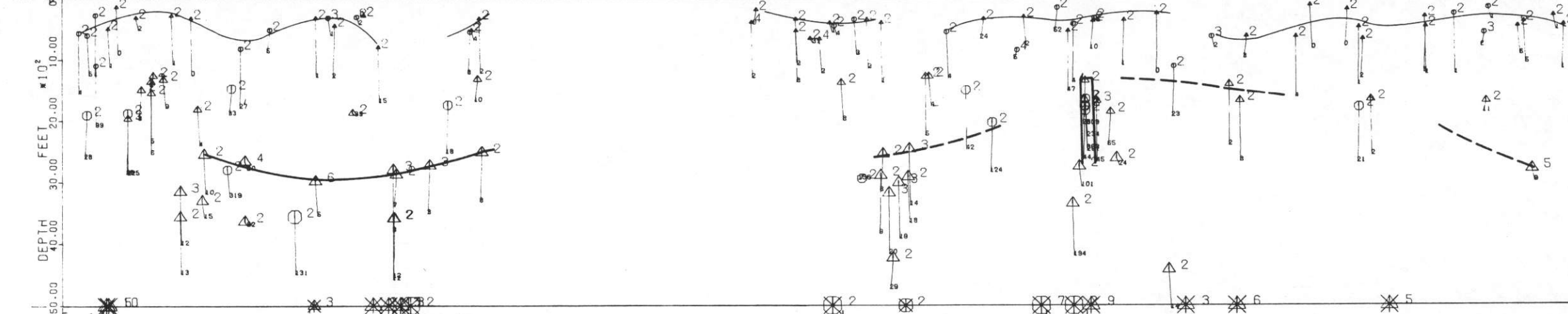
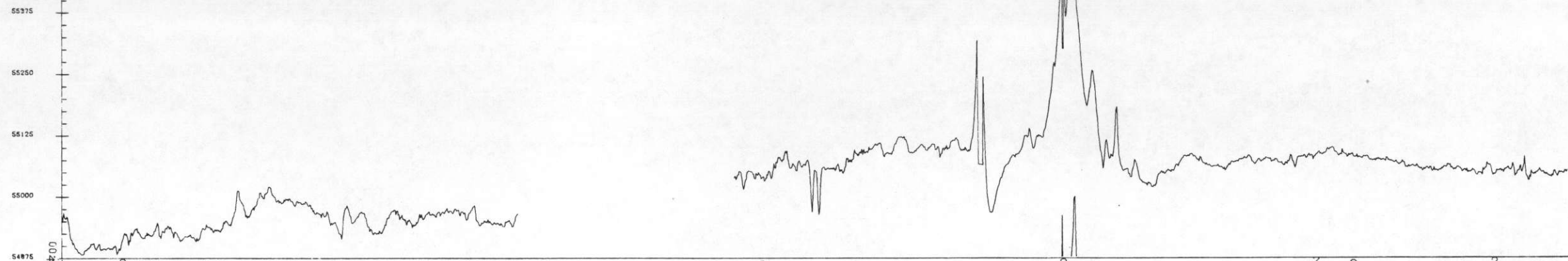


P 19

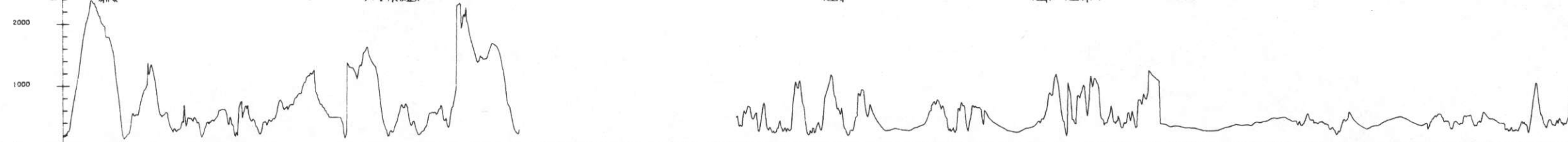
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



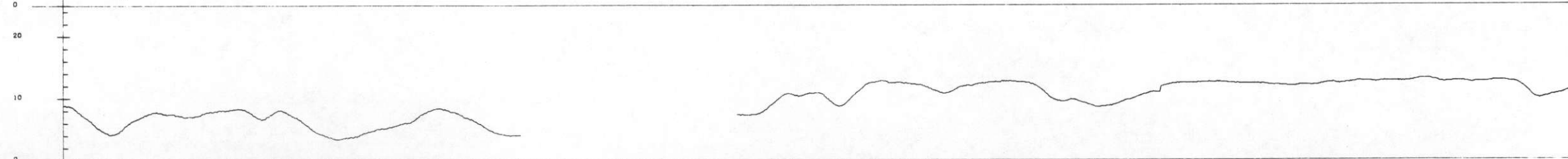
MAG
25 GAMMAS/DIV



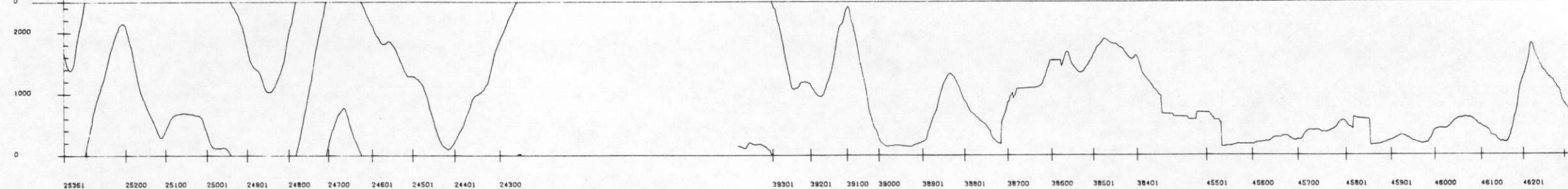
ALT
200 FT/DIV



TEMP
2.00 DEGREES/DIV

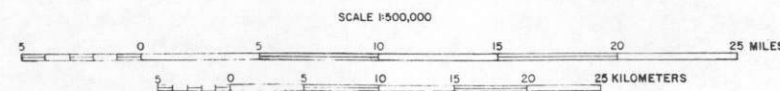


BAR ALT
200 FT/DIV

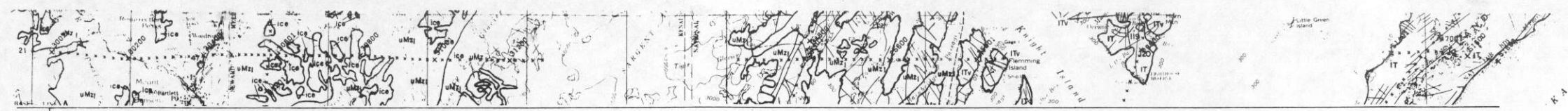


P 20

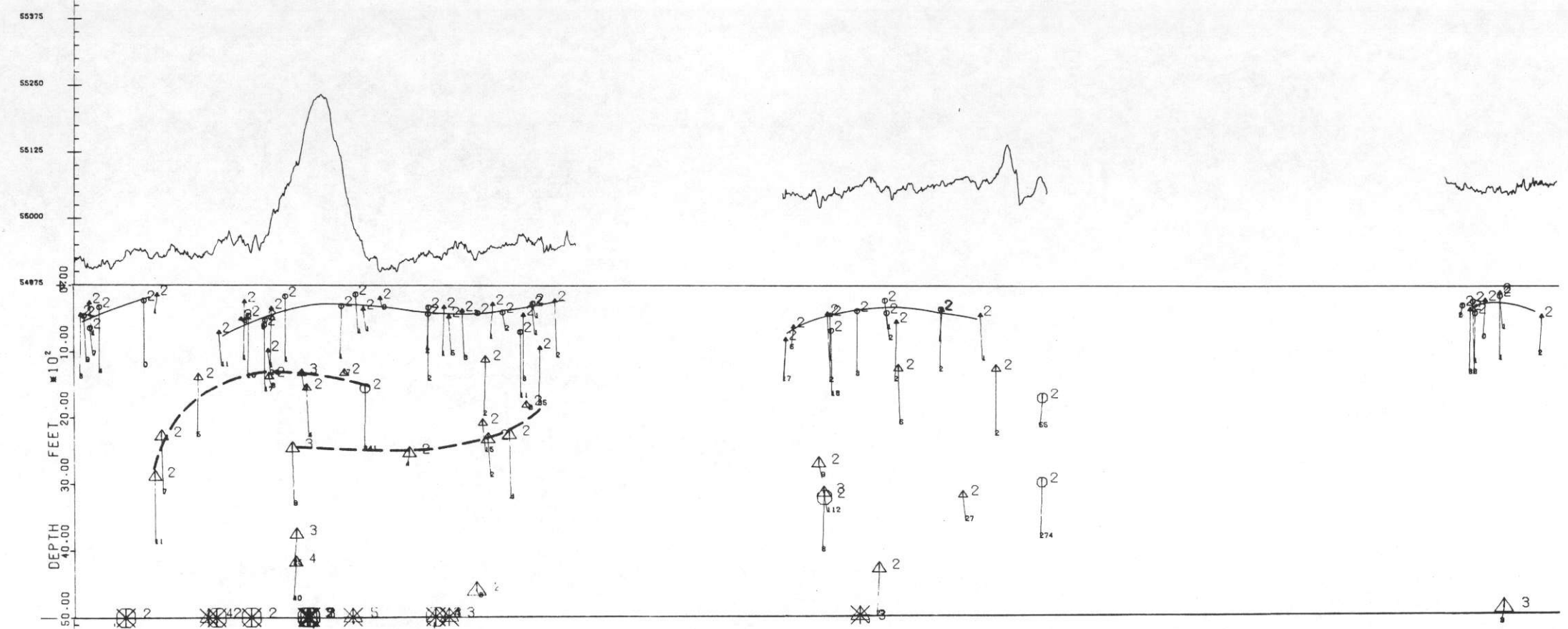
↑ EXCEEDS ALTITUDE SPECIFICATIONS



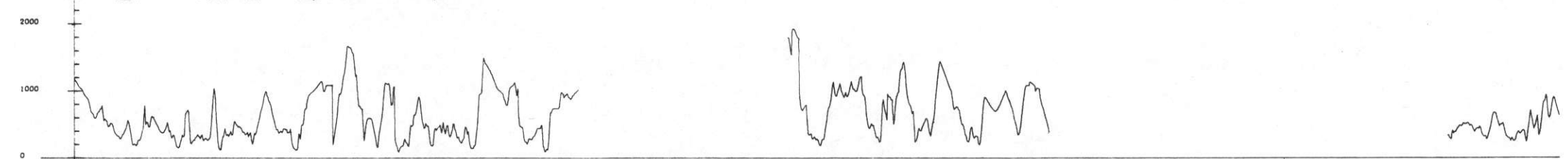
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



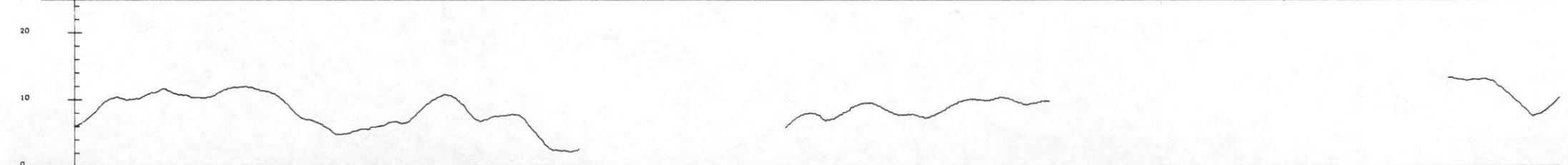
MAG
25 GAMMAS/DIV



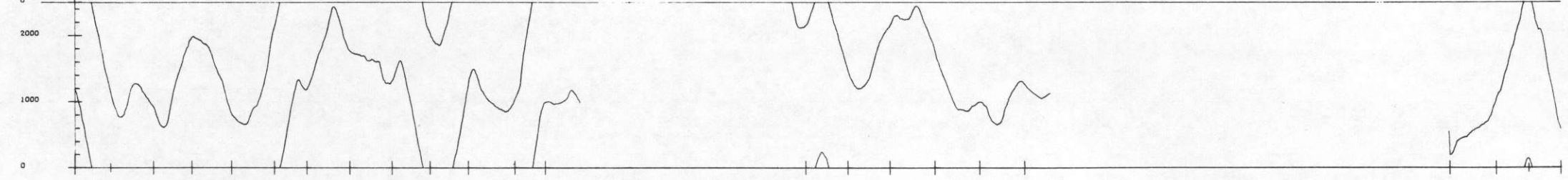
ALT
200 FT/DIV



TEMP
2.00 DEGREES/DIV

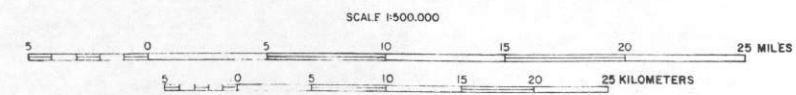


BAR ALT
200 FT/DIV

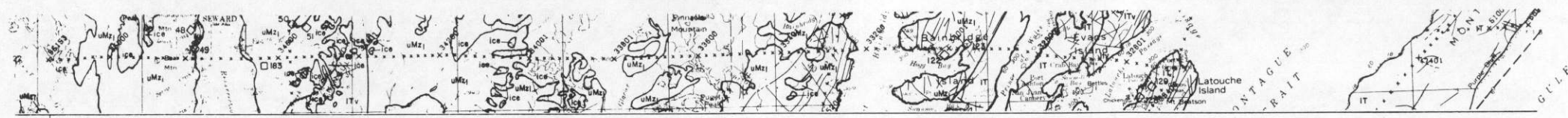


P 21

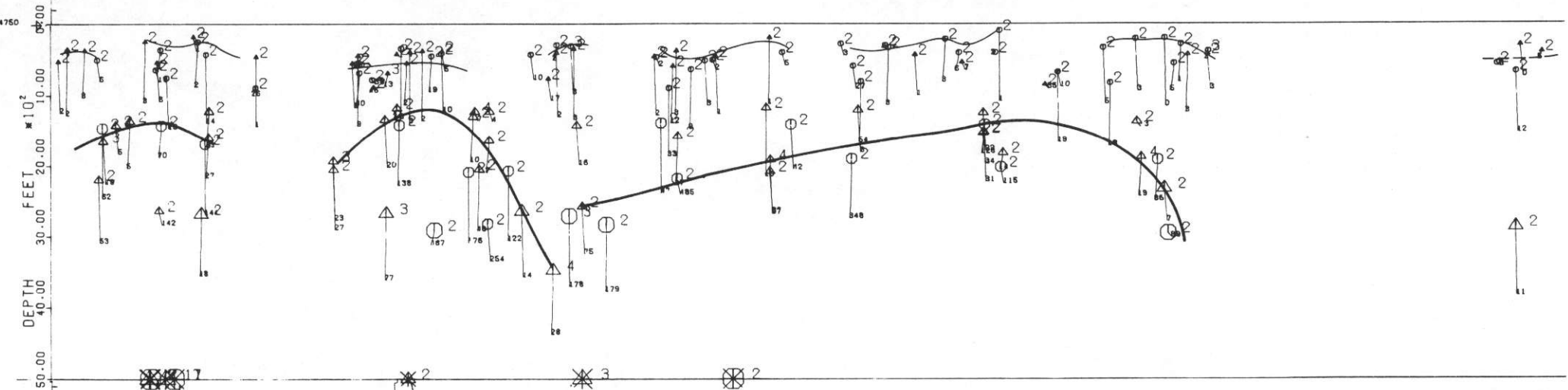
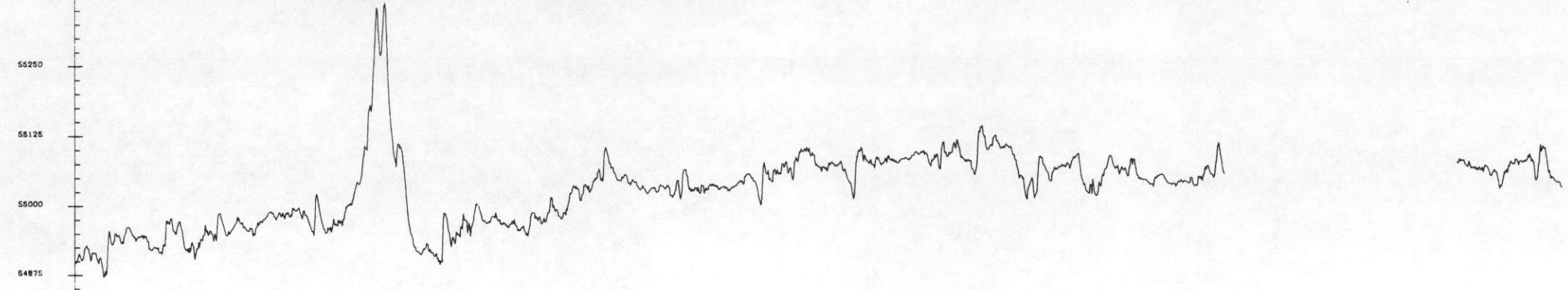
↑ EXCEEDS ALTITUDE SPECIFICATIONS



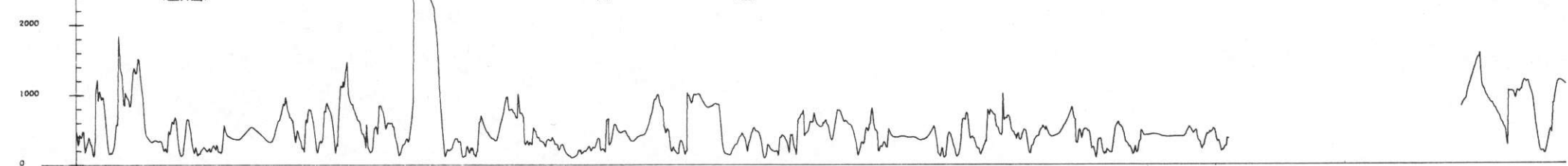
NURE AERIAL GAMMA RAY AND MAGNETIC
RECONNAISSANCE SURVEY
SEWARD, ALASKA
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1976 - 1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR
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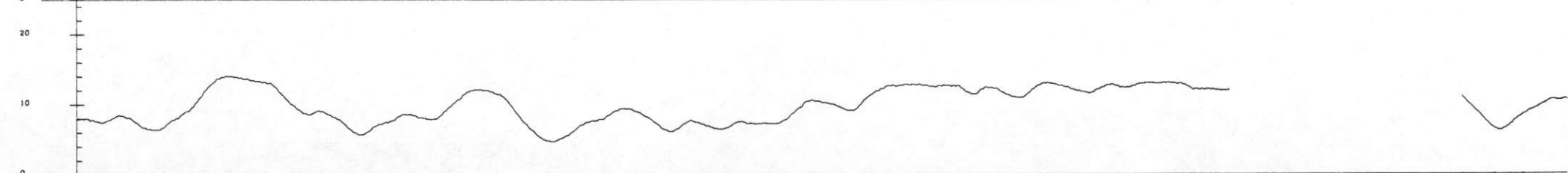
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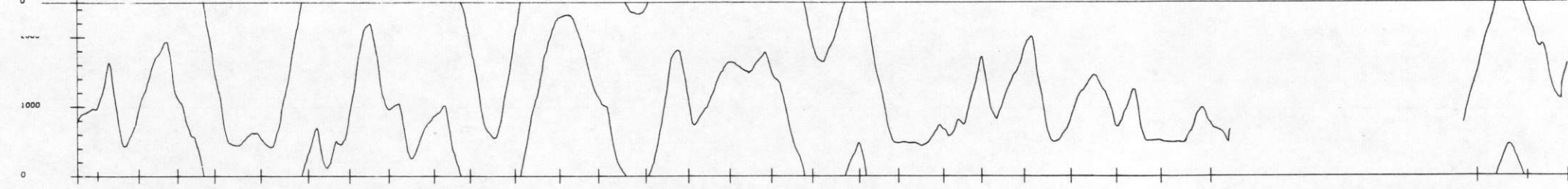
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TEMP
2.00 DEGREES/DIV



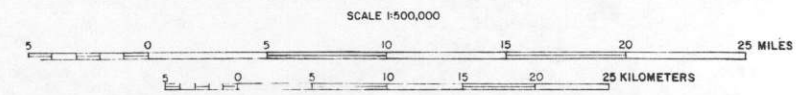
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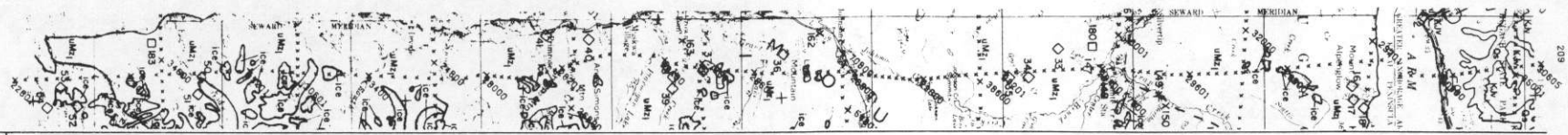
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P 22

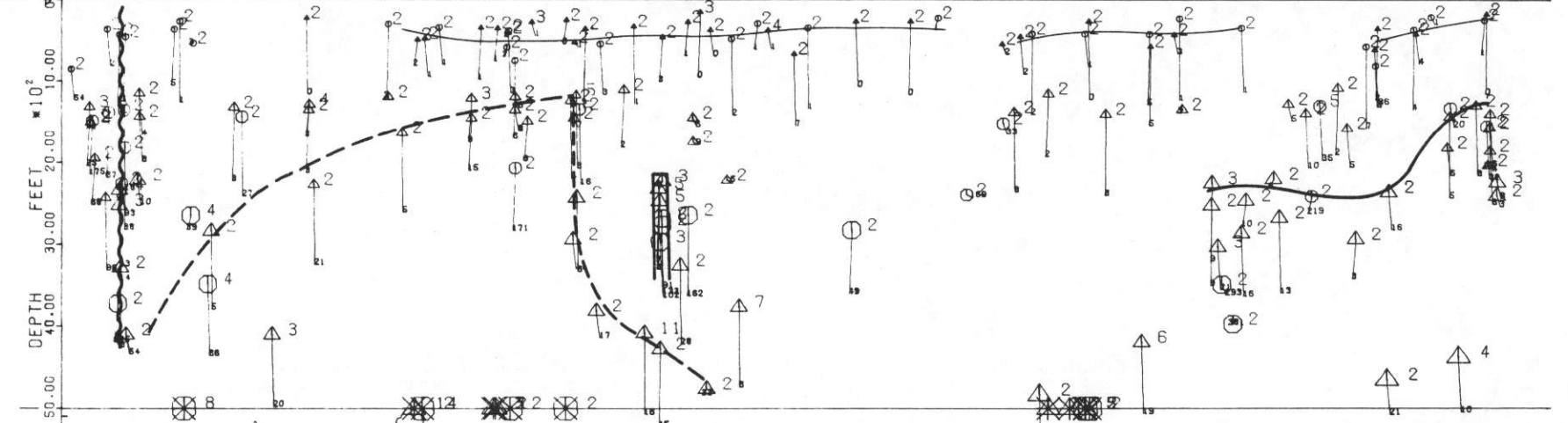
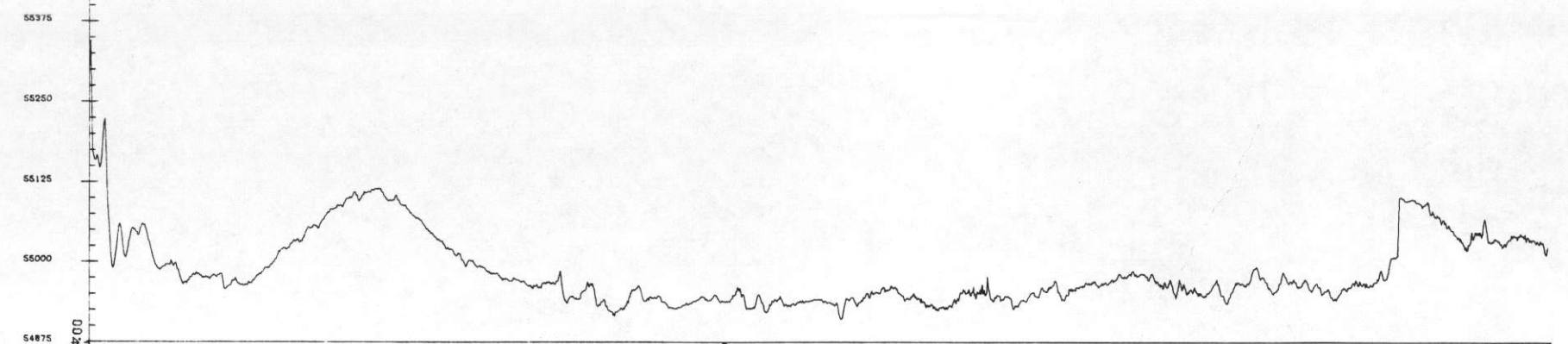
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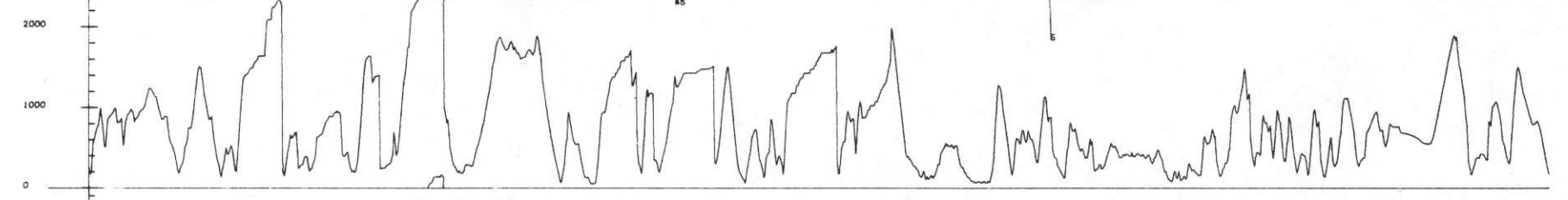
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1976 - 1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



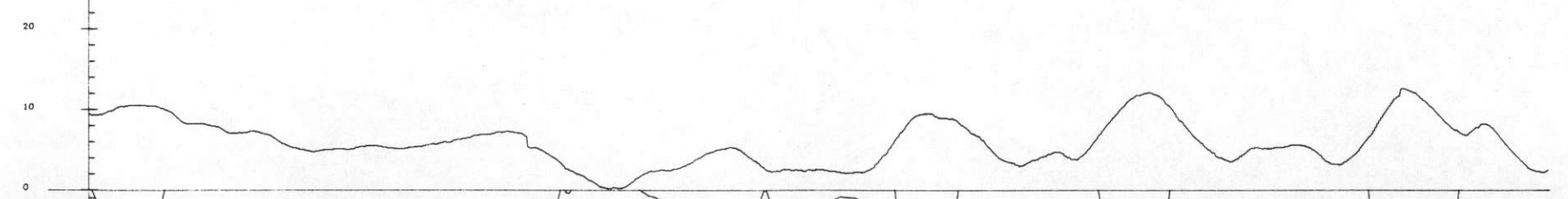
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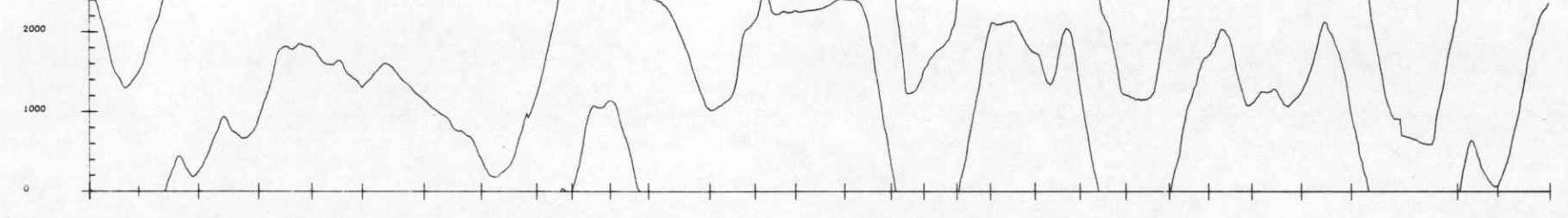
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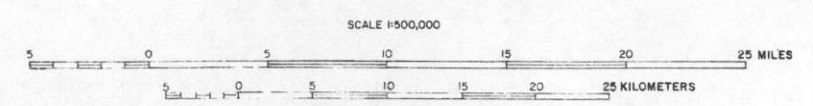


BAR ALT
200 FT/DIV



TL 209

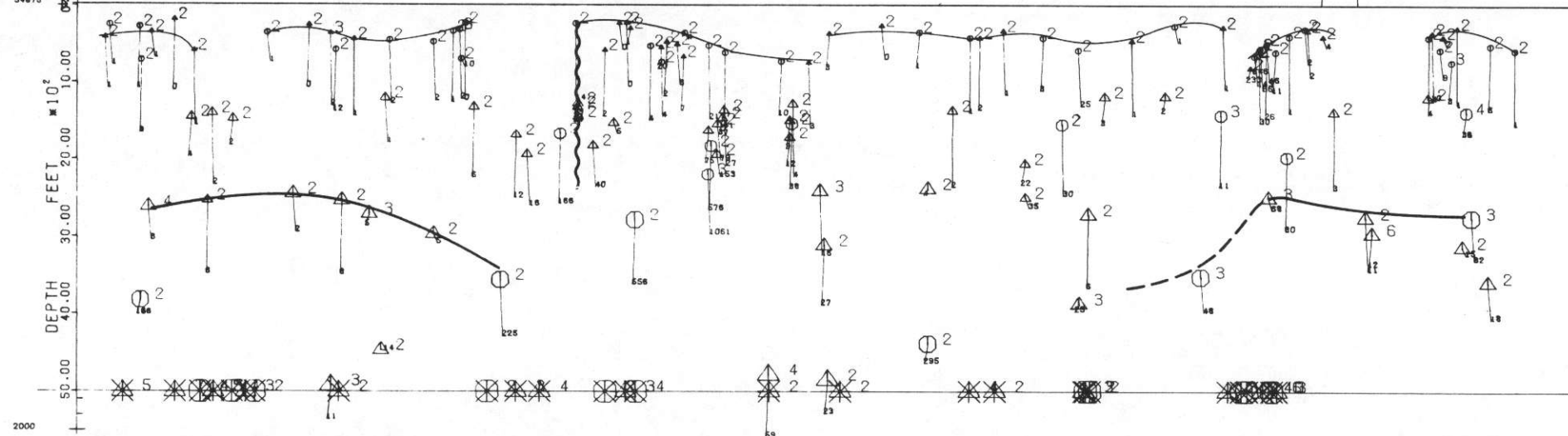
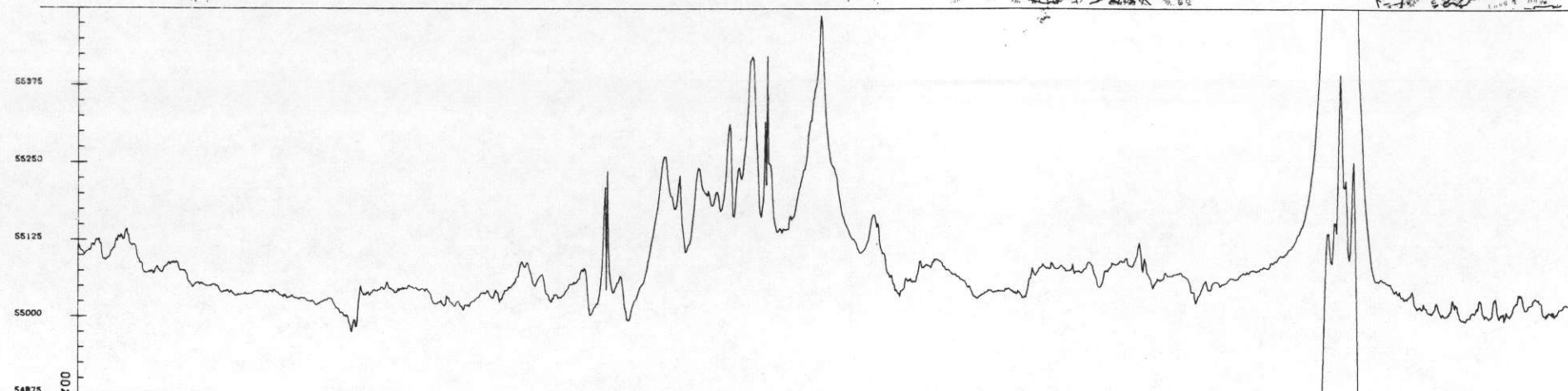
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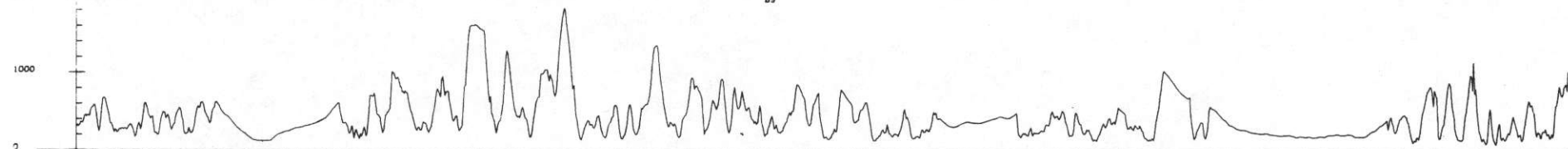
<p>NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY</p> <p>SEWARD, ALASKA</p> <p>MAGNETIC AND ANCILLARY STACKED PROFILE DATA</p> <p>1976 - 1978</p> <p>BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006</p> <p>PREPARED FOR DEPARTMENT OF ENERGY</p>
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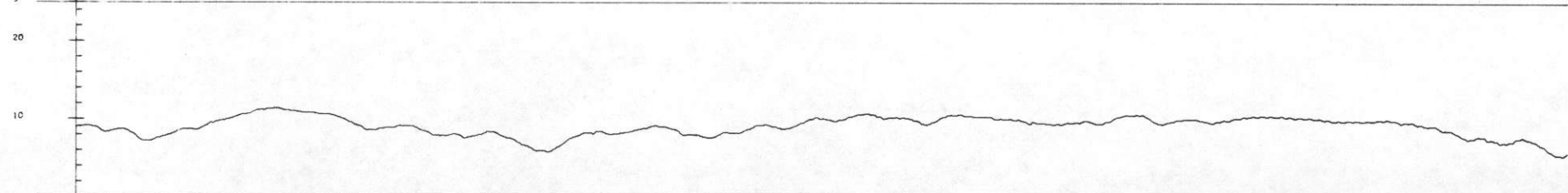
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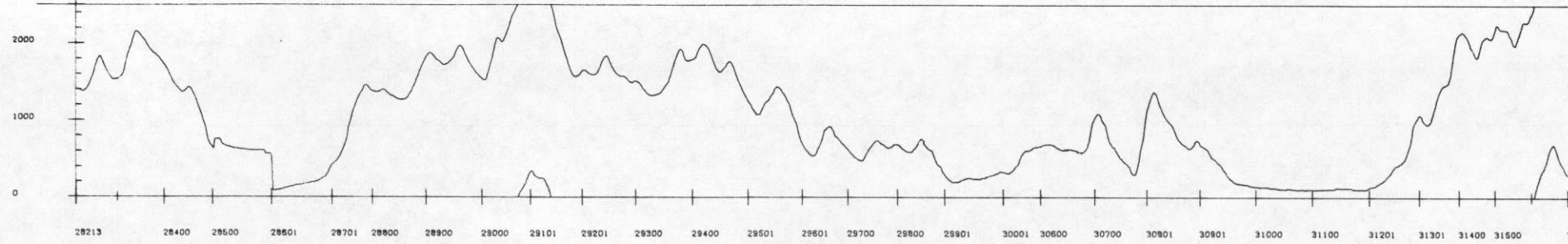
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TEMP
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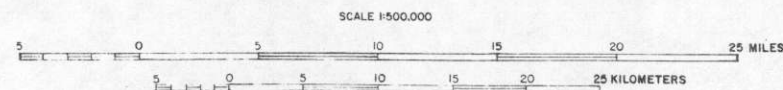


BAR ALT
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TL 211

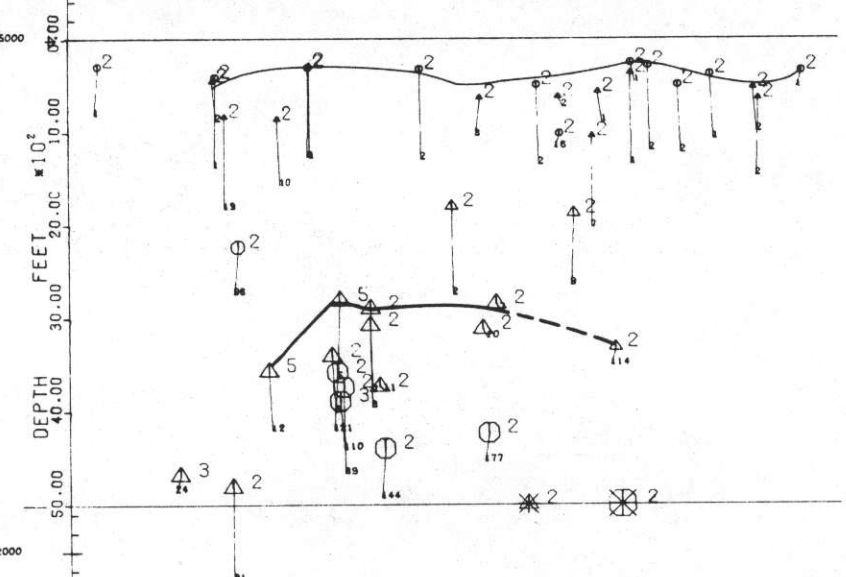
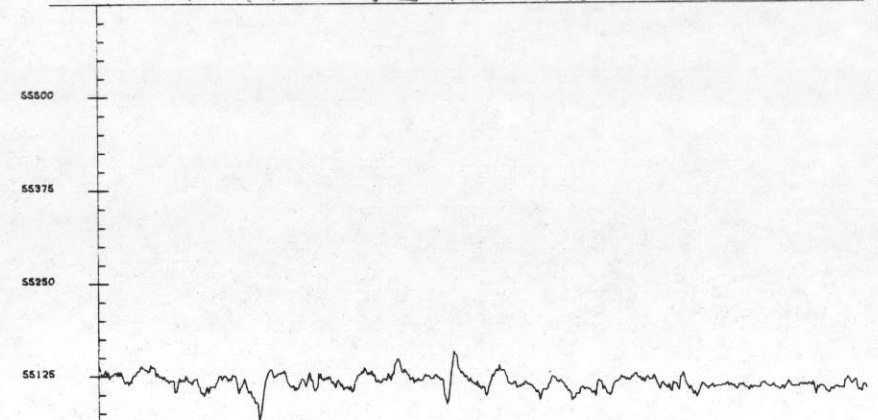
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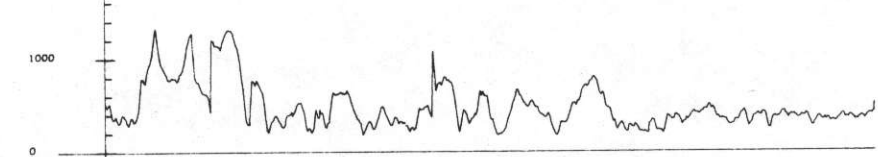
NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY
SEWARD, ALASKA
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1976-1978
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006
PREPARED FOR DEPARTMENT OF ENERGY



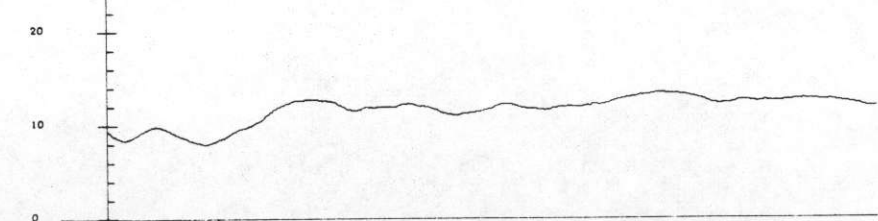
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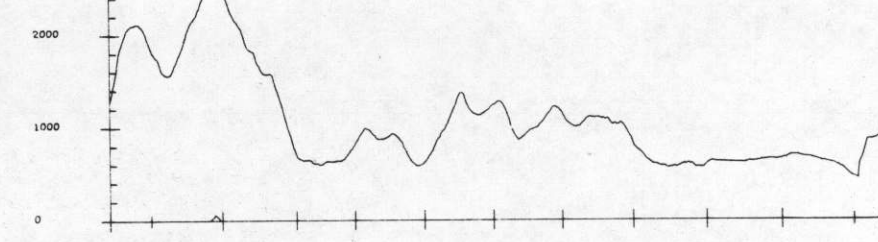
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TEMP
2.00 DEGREES/DIV

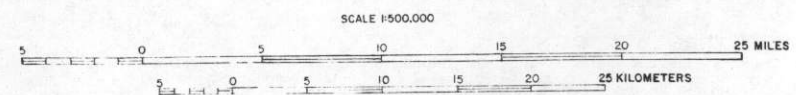


BAR ALT
200 FT/DIV



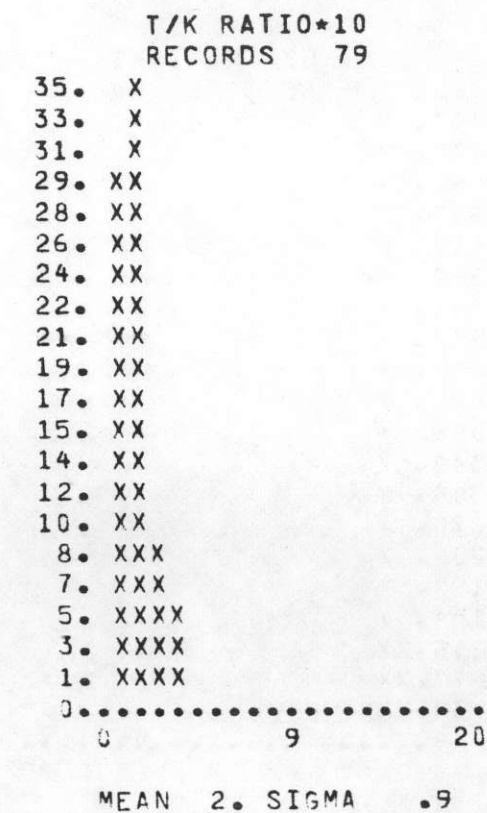
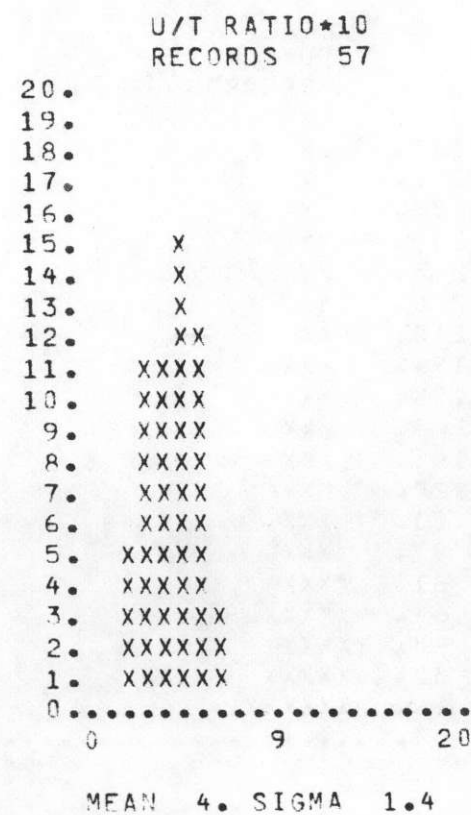
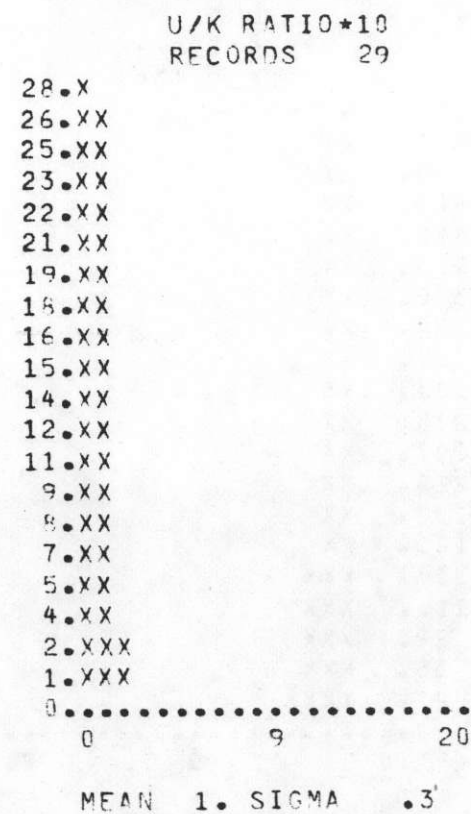
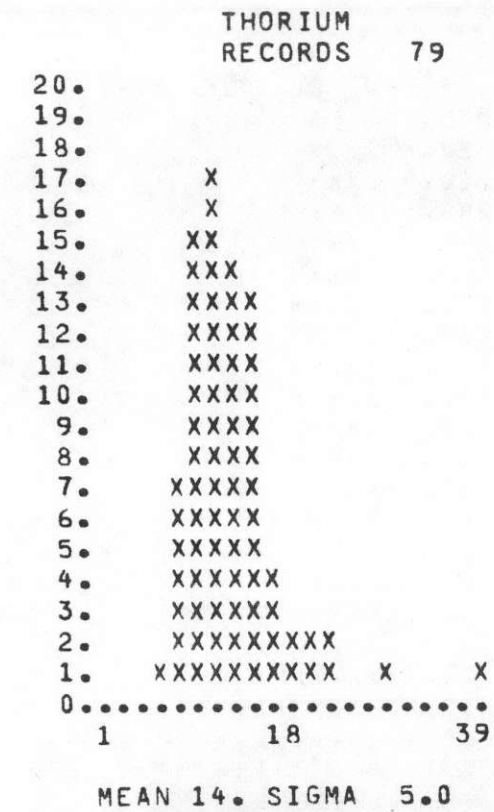
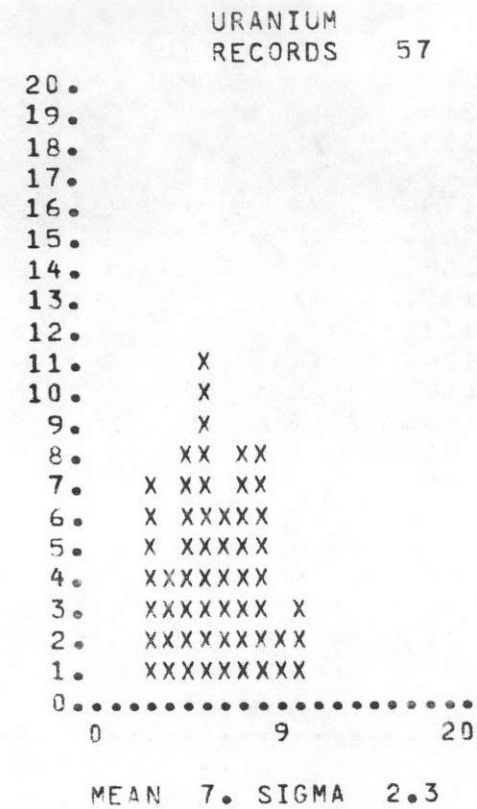
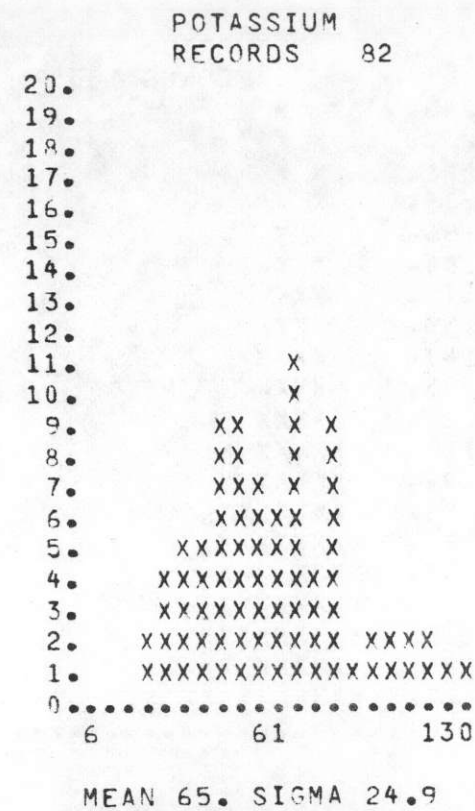
TL 212

↑ EXCEEDS ALTITUDE SPECIFICATIONS

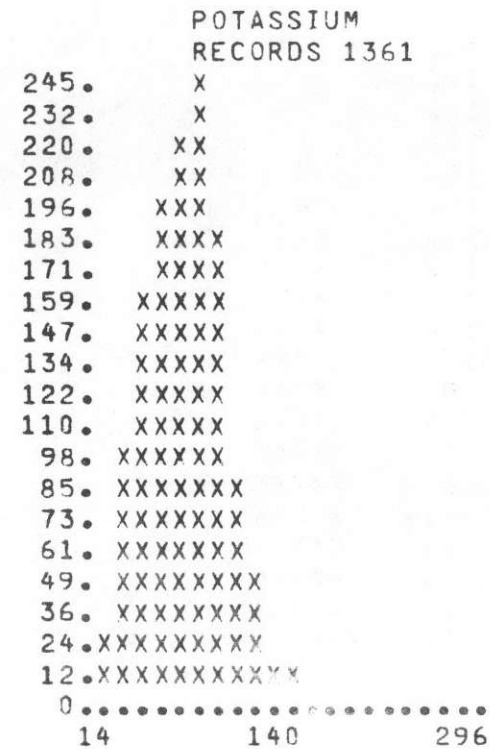


NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY	
SEWARD, ALASKA	
MAGNETIC AND ANCILLARY STACKED PROFILE DATA	
1976-1978	
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006	
PREPARED FOR DEPARTMENT OF ENERGY	

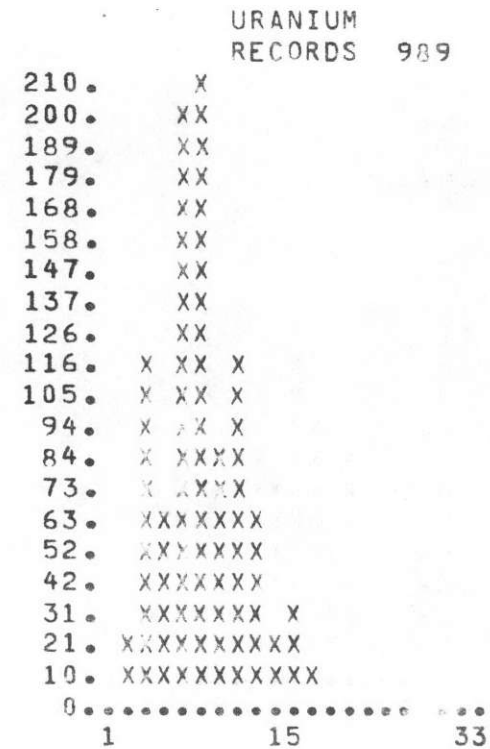
SEWARD/BLYING SOUND ALASKA LKB RESOURCES 40-76-4104 1976-78
GEOLOGIC UNIT KJM



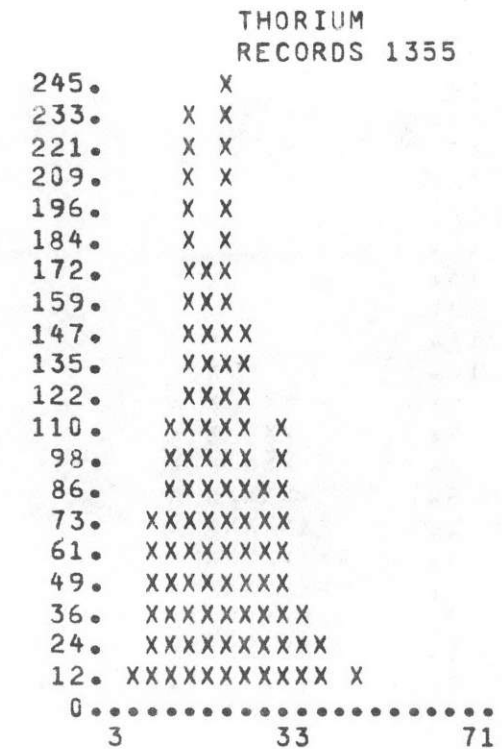
SEWARD/BLYING SOUND ALASKA LKB RESOURCES 40-76-4104 1976-78
GEOLOGIC UNIT UM. 1



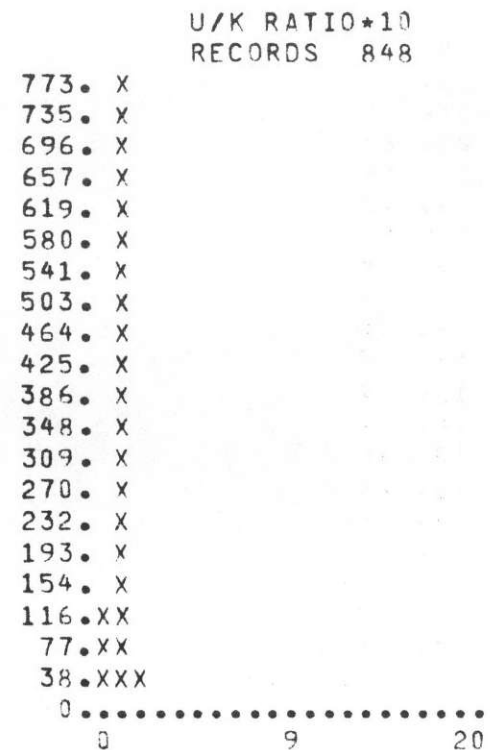
MEAN 70. SIGMA 33.9



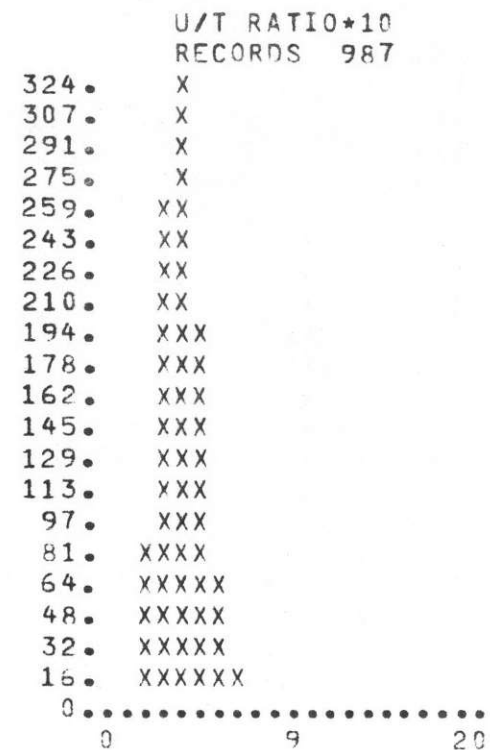
MEAN 10. SIGMA 4.2



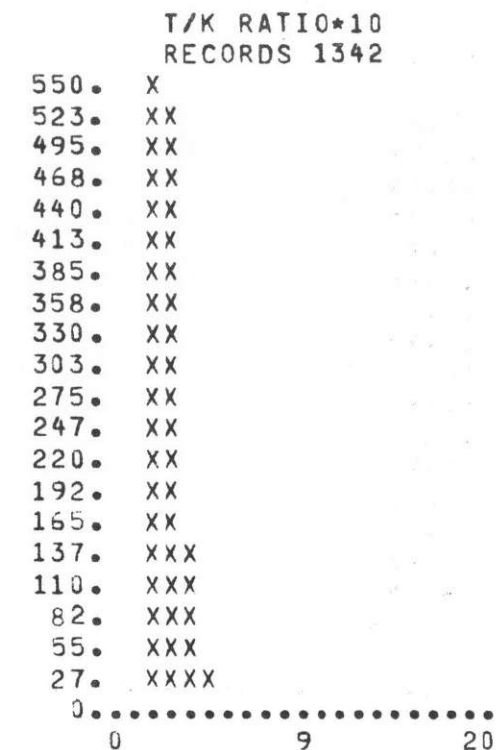
MEAN 22. SIGMA 8.7



MEAN 1. SIGMA .5

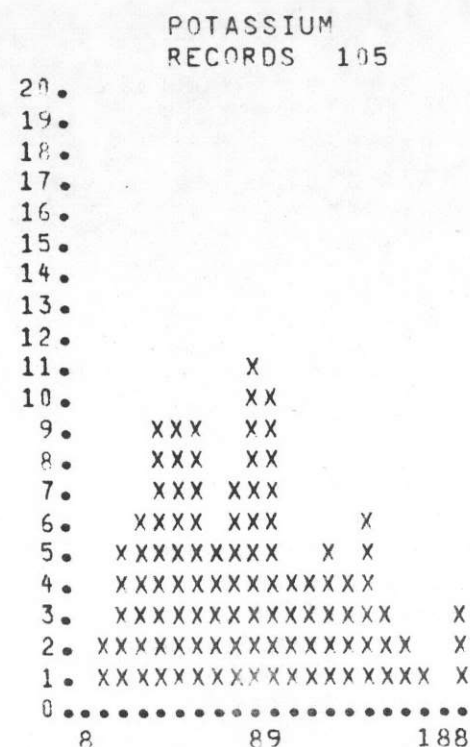


MEAN 4. SIGMA 1.4

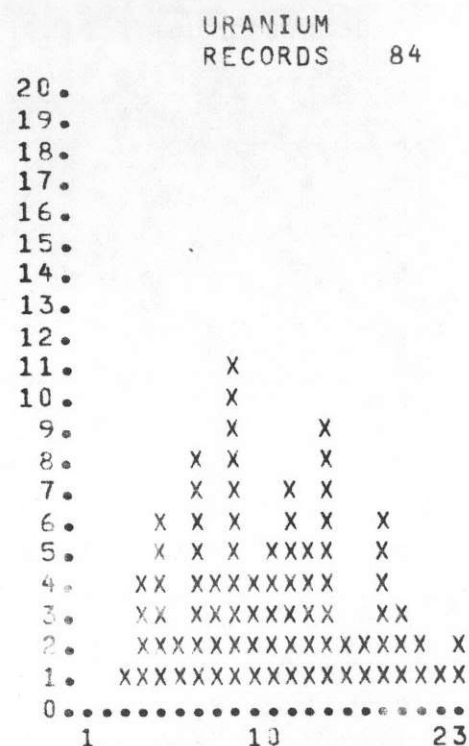


MEAN 3. SIGMA 1.2

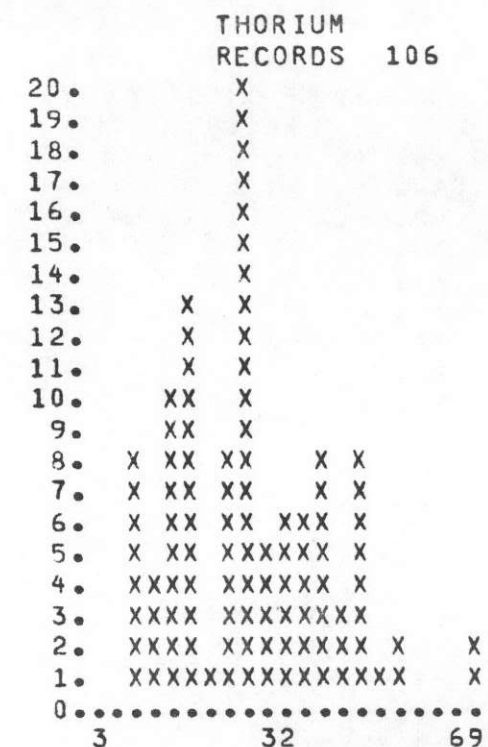
SFWARD/BLYING SOUND ALASKA LKB RESOURCES 40-76-4104 1976-78
GEOLOGIC UNIT TOG



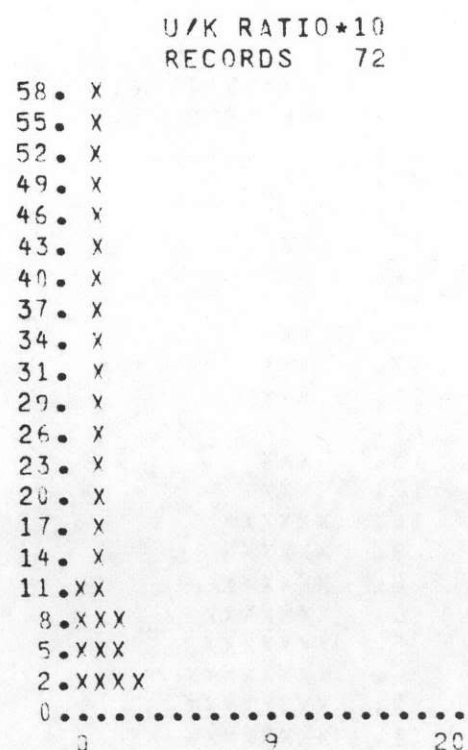
MEAN 84. SIGMA 41.9



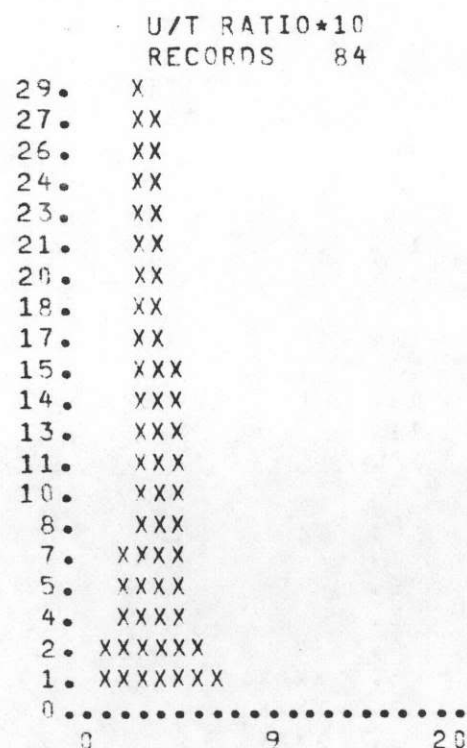
MEAN 12. SIGMA 5.2



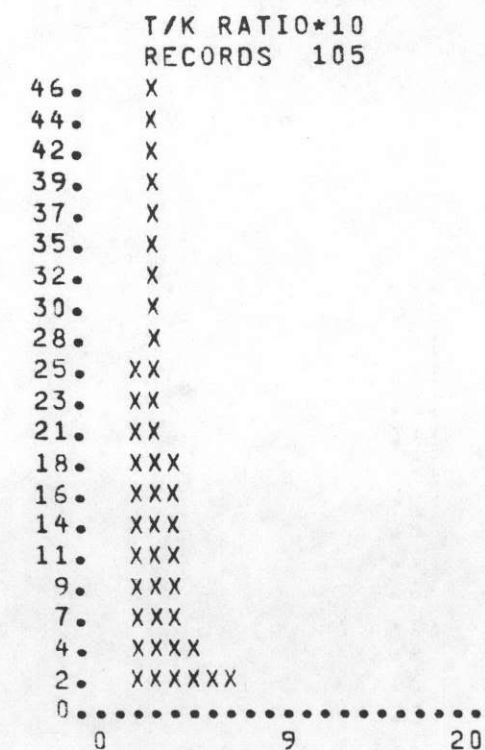
MEAN 29. SIGMA 13.5



MEAN 1. SIGMA .6

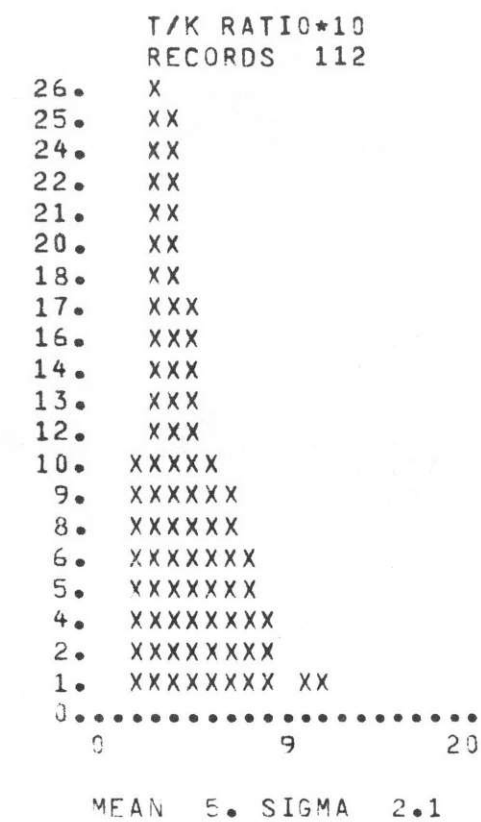
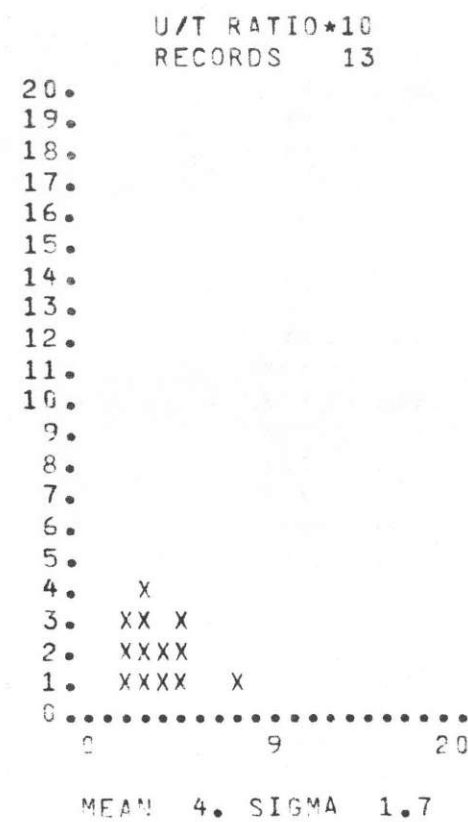
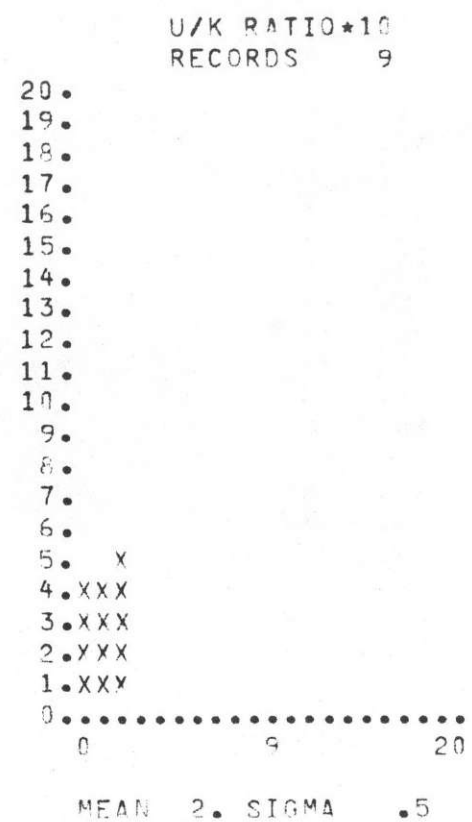
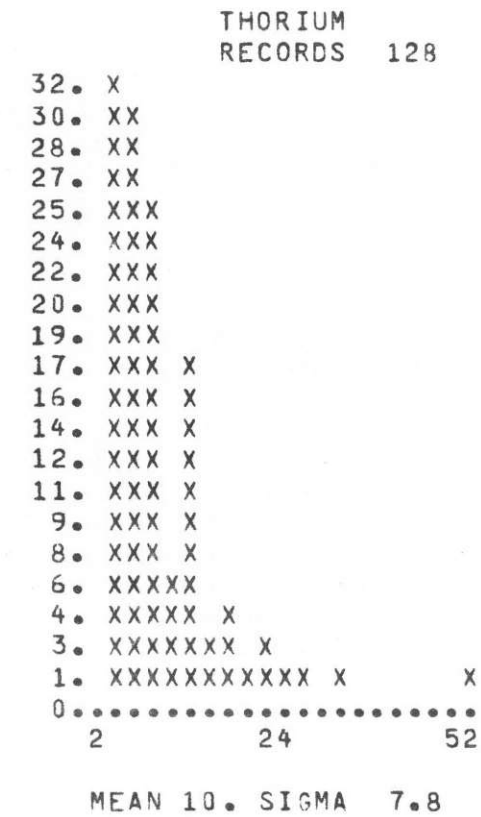
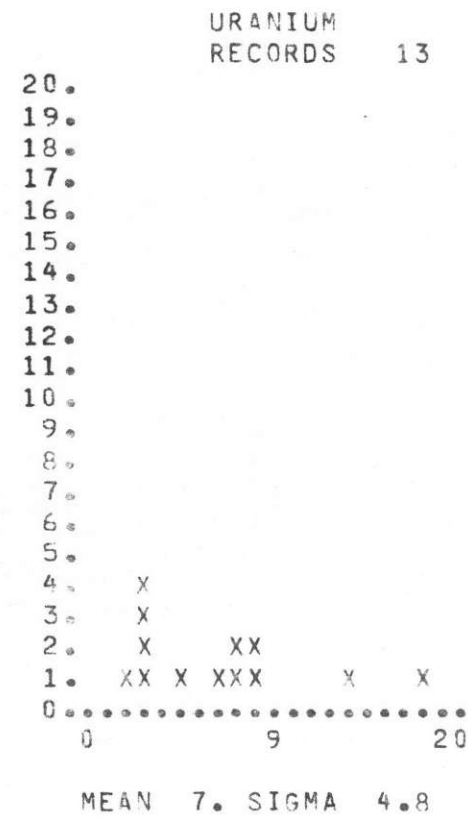


MEAN 4. SIGMA 1.1

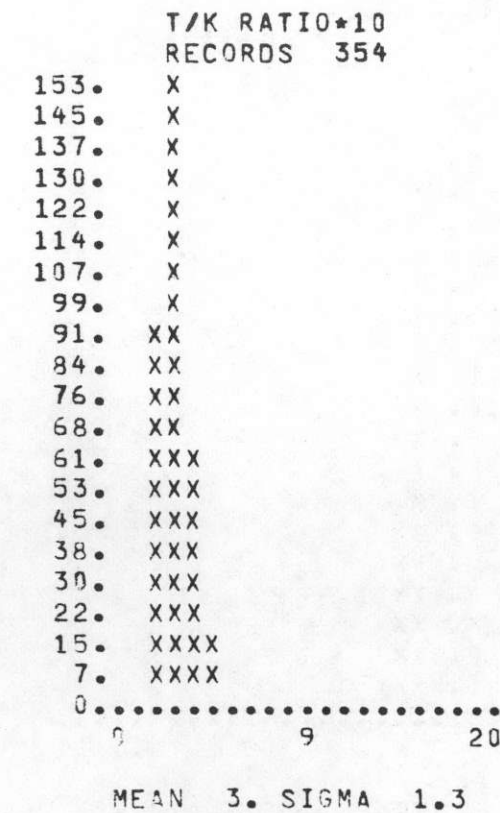
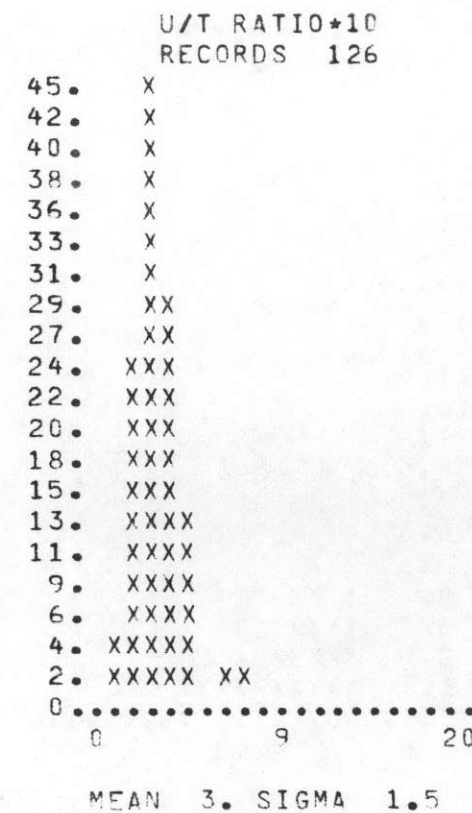
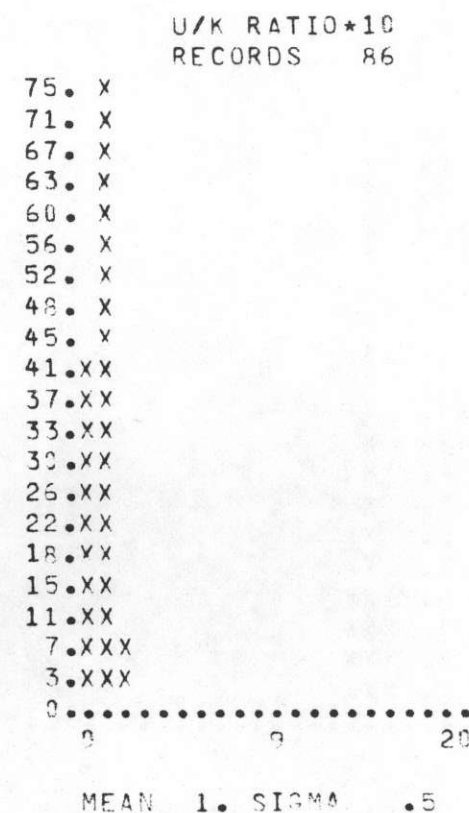
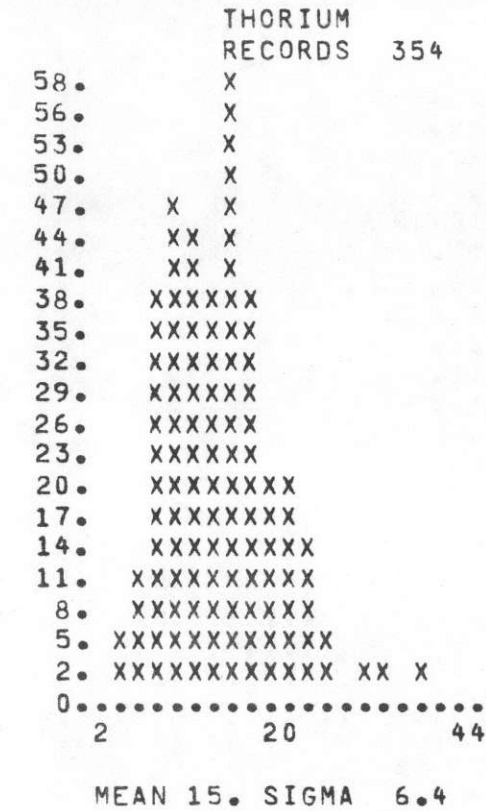
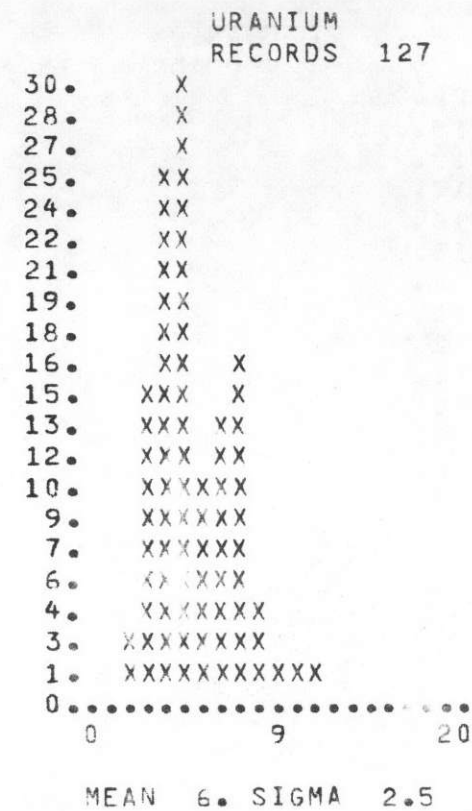
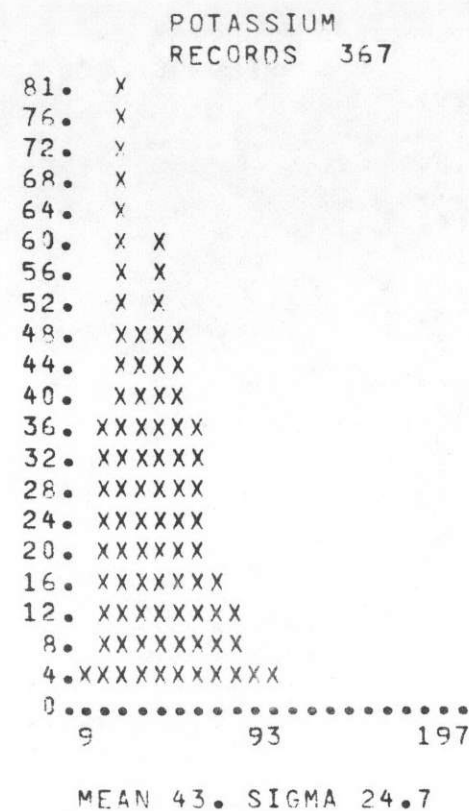


MEAN 3. SIGMA 1.9

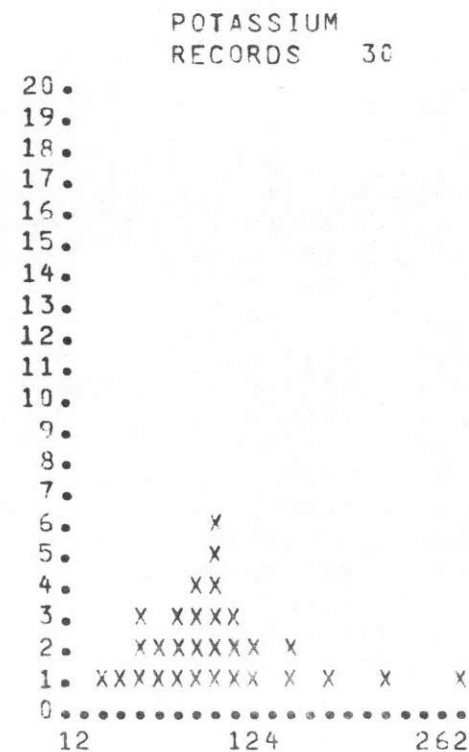
SEWARD/BLYING ^{SE} ~~SE~~ ALASKA ^{LAND} ~~LAND~~ RESOURCES 40-76-4104 1976-78
GEOLOGIC UNIT-217



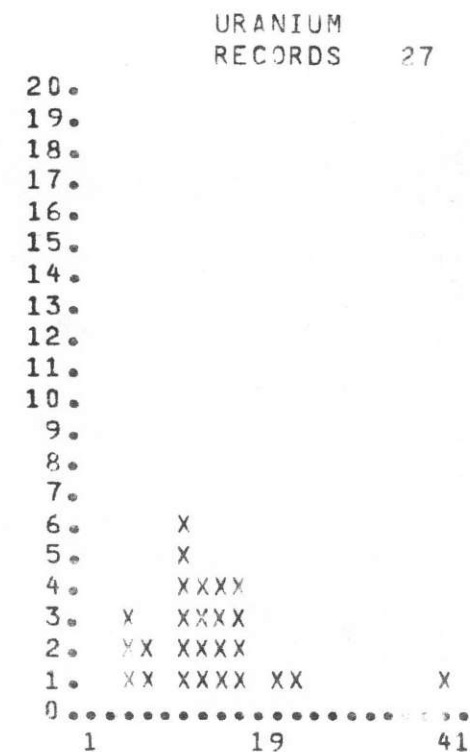
SEWARD/BLYING SOUND ALASKA LKB RESOURCES 40-76-4104 1976-78
GEOLOGIC UNIT LT



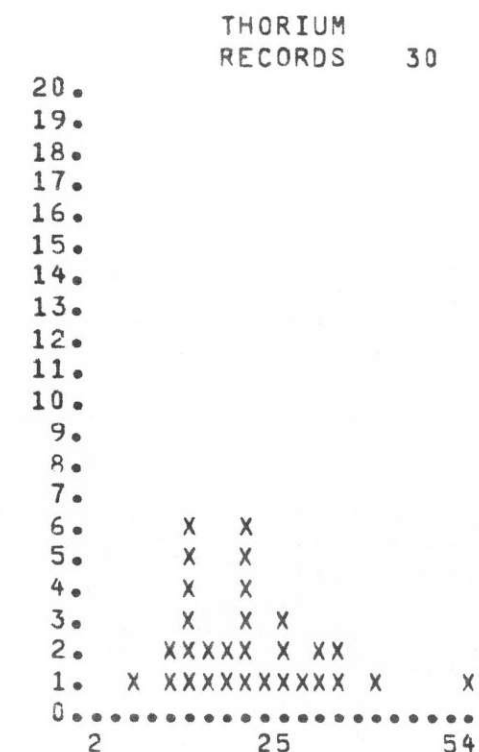
SEWARD/BLYING SOUND ALASKA LKB RESOURCES 40-76-4104 1976-78
GEOLOGIC UNIT 18



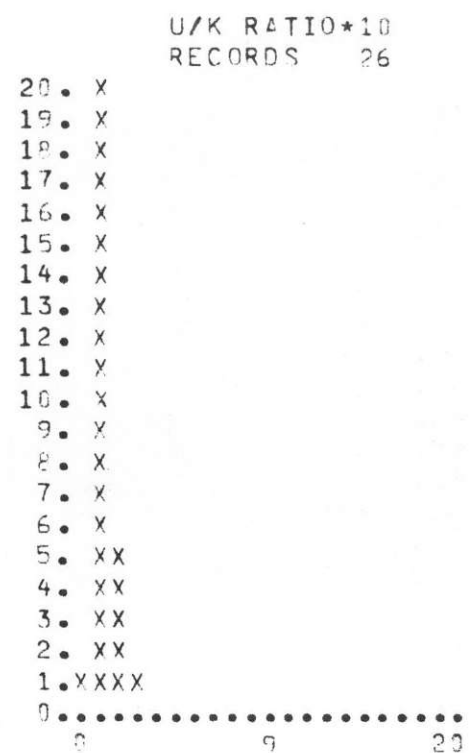
MEAN 96. SIGMA 50.6



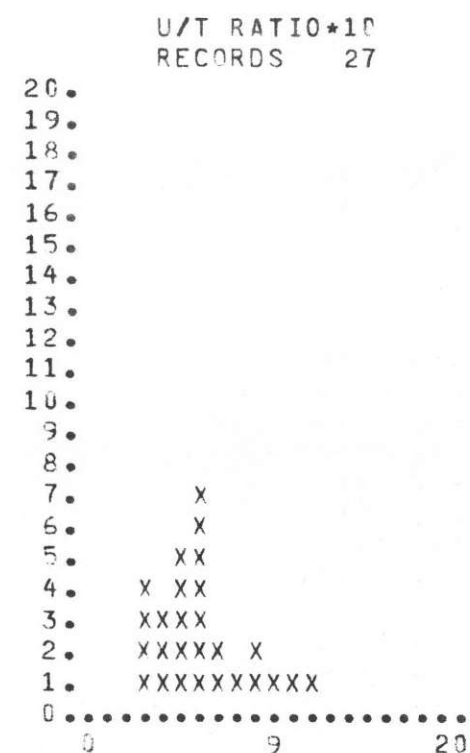
MEAN 15. SIGMA 8.8



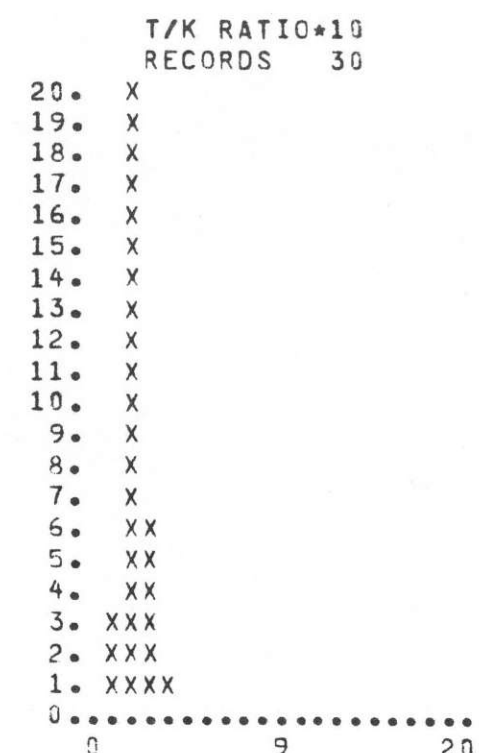
MEAN 24. SIGMA 10.3



MEAN 1. SIGMA .5

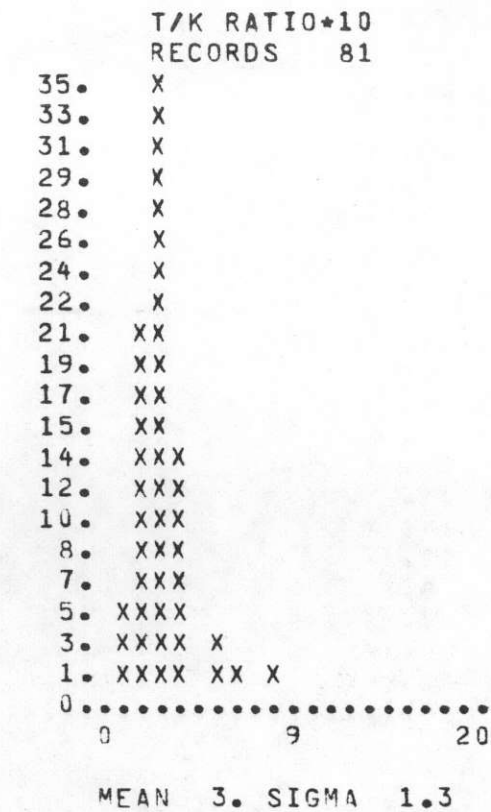
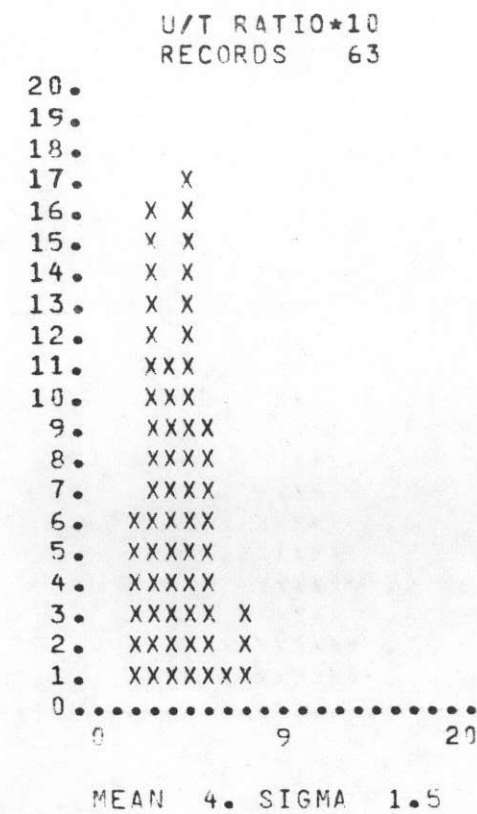
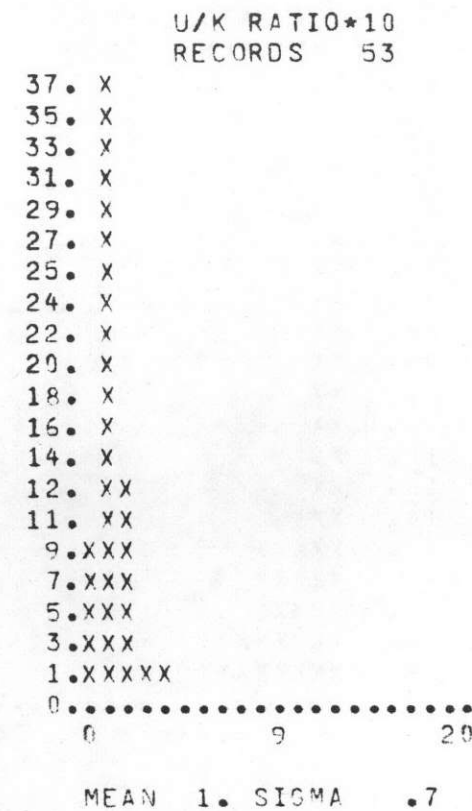
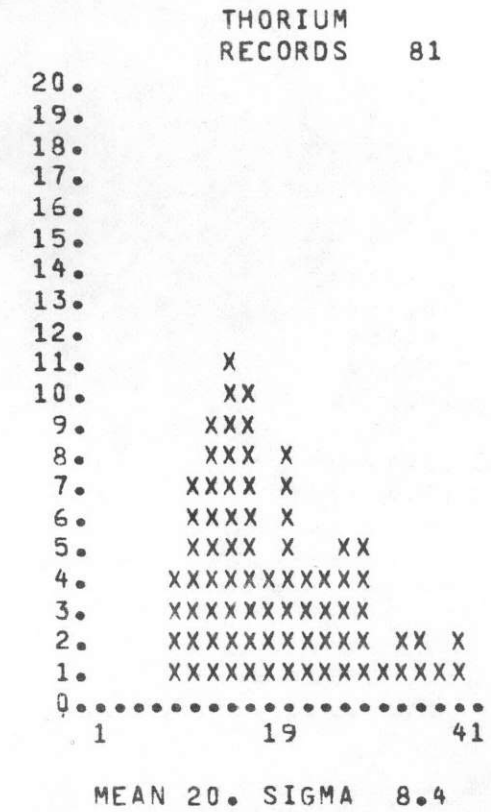
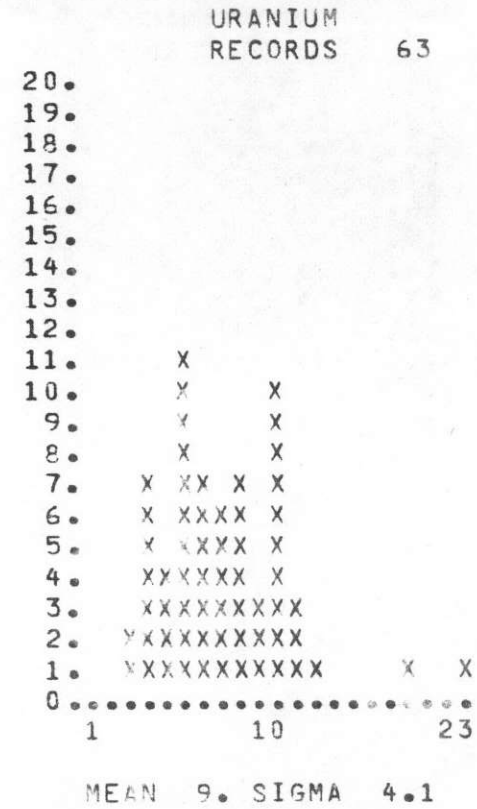
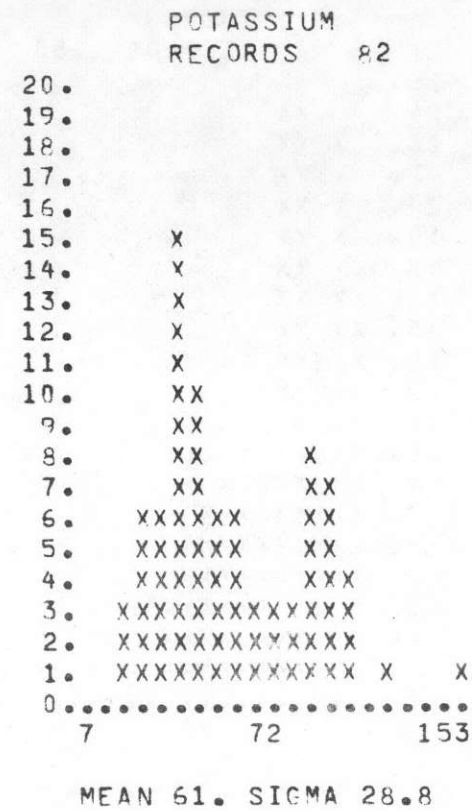


MEAN 6. SIGMA 2.4

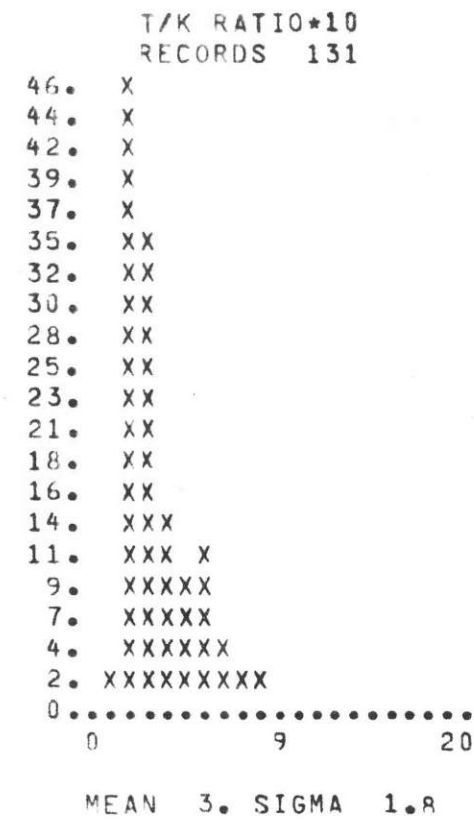
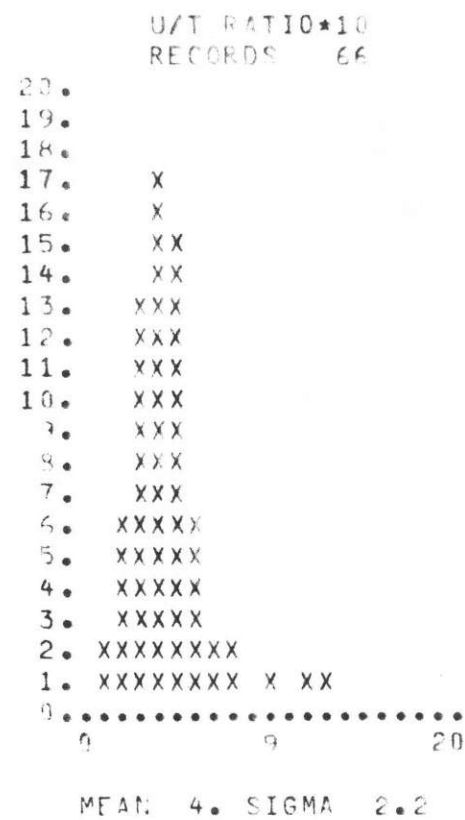
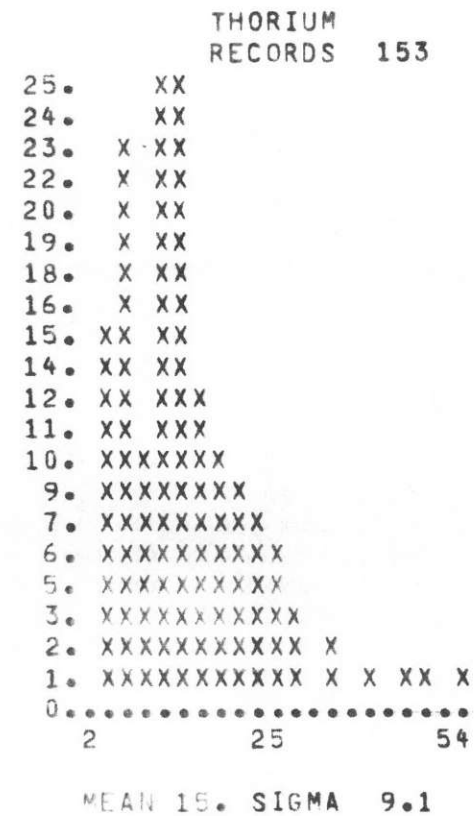


MEAN 2. SIGMA .6

SEWARD/BLYING SOUND ALASKA LKB RESOURCES 40-76-4104 1976-78
GEOLOGIC UNIT QS

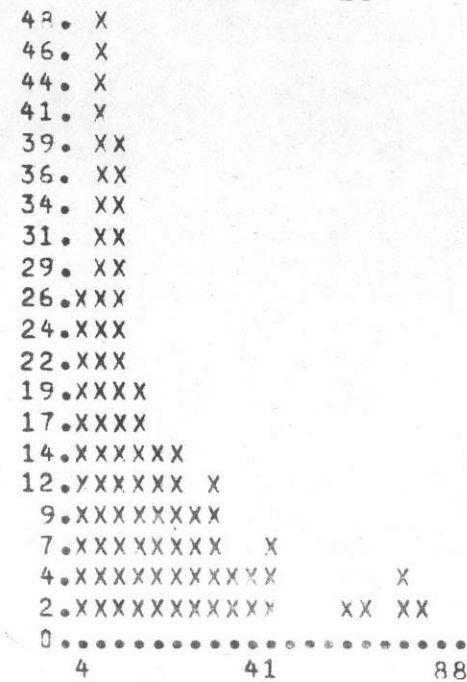


SEWARD/BLYING SOUND ALASKA L&B RESOURCES 40-76-4104 1976-78
GEOLOGIC UNIT 100



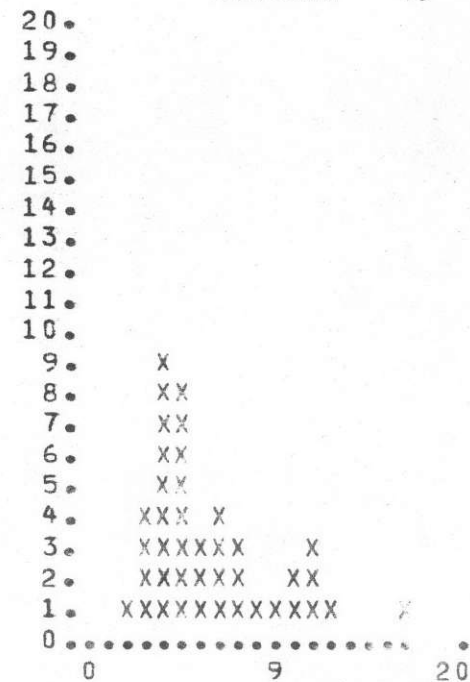
SEWARD/BLYING SOUND ALASKA LKB RESOURCES 40-76-4104 1976-78
GEOLOGIC UNIT WATER

POTASSIUM
RECORDS 219



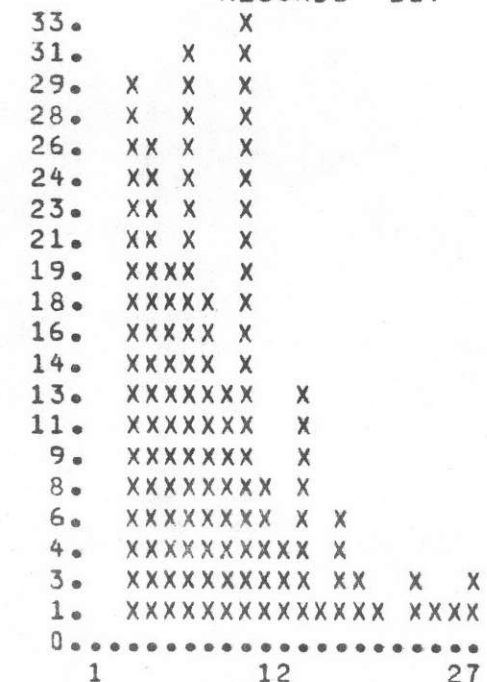
MEAN 19. SIGMA 18.4

URANIUM
RECORDS 41



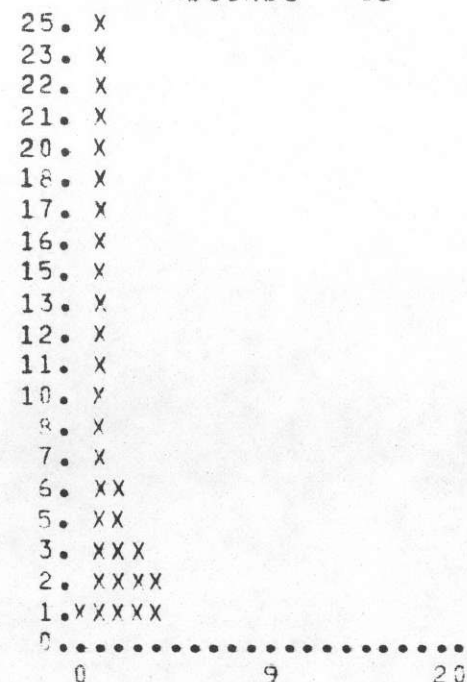
MEAN 7. SIGMA 3.4

THORIUM
RECORDS 217



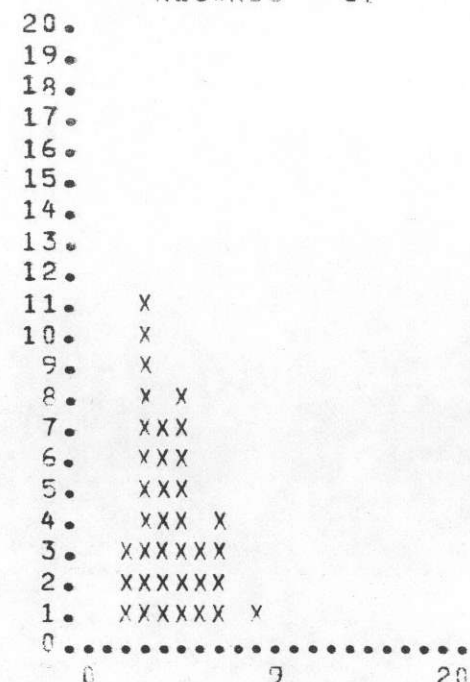
MEAN 10. SIGMA 5.2

U/K RATIO*10
RECORDS 36



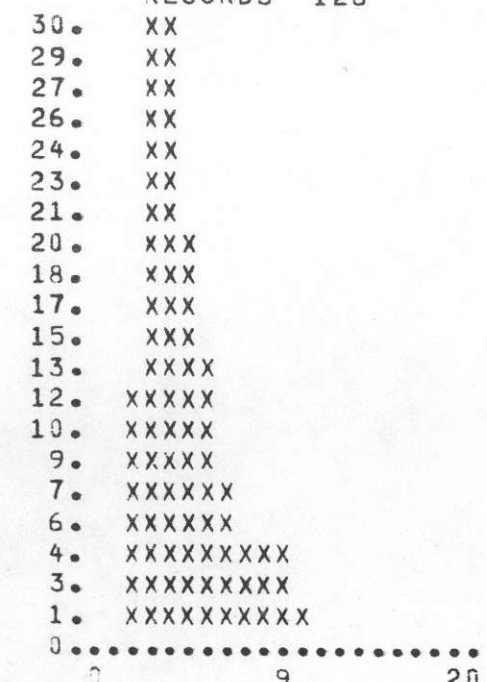
MEAN 1. SIGMA .9

U/T RATIO*10
RECORDS 37



MEAN 4. SIGMA 1.7

T/K RATIO*10
RECORDS 128



MEAN 5. SIGMA 2.0

